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Annual Statistical Report

AMERICAN
IRON AND STEEL
INSTITUTE
1986

AMERICAN IRON AND STEEL INSTITUTE
1000 16TH STREET, N.W., WASHINGTON, D.C. 20036

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NOTES

D—Disclosure
P—Preliminary
R—Revised
n.a.—Not available
Net ton—2,000 pounds
Gross ton—2,240 pounds
( ) Indicates loss or negative number.
Rounded figures do not necessarily add to totals.

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

SELECTED HIGHLIGHTS
THE IRON AND STEEL INDUSTRY AT A GLANCE

The Selected Statistical Highlights present a eight or ten-year trend from which comparisons of year-to-year changes may be made for those items of the industry that are indicative of the operating level and the financial status of reporting companies. In the use of the highlights, it should be recognized that there may be a difference in the universe of reporting companies for the major items in the statistical section. This is especially significant for the financial series as compared to other series; for example, the universe for financial data for 1985 and 1986 represents companies who in 1986 produced 77% of the reported raw steel production.

SELECTED STATISTICAL HIGHLIGHTS

Table 1A

Shipments, Apparent Supply, Imports & Employment

(Thousands)

	Steel Mill Products—Net Tons				Imports as % of U.S. Apparent Steel Supply					Steel Employment (a)
Year	Total Net Shipments	Less Exports	Plus Imports	U.S. Apparent Steel Supply	Total	Japan	EEC	Canada	Other	Average No. of Employees
1986	70,263	929	20,692	90,026	23.0	4.9	7.3	3.6	7.2	175
1985	73,043	932	24,256	96,367	25.2	6.2	7.2	3.0	8.8	208
1984	73,739	980	26,163	98,922	26.4	6.7	6.4	3.2	10.1	236
1983	67,584	1,199	17,070	83,455	20.5	5.1	4.9	2.9	7.6	243
1982	61,567	1,842	16,663	76,388	21.8	6.8	7.3	2.4	5.3	289
1981	88,450	2,904	19,898	105,444	18.9	5.9	6.1	2.7	4.2	391
1980	83,853	4,101	15,495	95,247	16.3	6.3	4.1	2.5	3.4	399
1979	100,262	2,818	17,518	114,962	15.2	5.5	4.7	2.0	3.0	453
1978	97,935	2,422	21,135	116,648	18.1	5.6	6.4	2.0	4.1	449
1977	91,147	2,003	19,307	108,451	17.8	7.2	6.3	1.7	2.6	452
Details on Page	28	38	48		51	51	51	51	51	19

(a) Covering only those employees engaged in the production and sale of iron and steel products and excludes mining and quarrying operations, transportation, warehousing, fabrication and other non-steel producing activities.

Table 1B

Raw Steel Data

(Thousands of net tons)

		United States				Percent of U.S. Production				
						By Type of Furnace			By Type Cast	
Year	World Production	Production	% of World	Capability	% of capability	OH	BOP	Elec.	Ingots	Continuous
1986	784,800	81,606	10.4	127,900	63.8	4.1	58.7	37.2	44.7	55.2
1985	792,947[R]	88,259	11.1	133,600	66.1	7.3	58.8	33.9	55.5	44.4
1984	782,590[R]	92,528	11.8	135,300	68.4	9.0	57.1	33.9	60.3	39.6
1983	730,930	84,615	11.6	150,600	56.2	7.0	61.5	31.5	67.8	32.1
1982	710,738	74,577	10.5	154,000	48.4	8.2	60.7	31.1	70.9	29.0
1981	779,399	120,828	15.5	154,300	78.3	11.1	60.6	28.3	78.2	21.6
1980	790,419	111,835	14.2	153,700	72.8	11.7	60.4	27.9	79.5	20.3
1979	824,486	136,341	16.5	155,300	87.8	14.0	61.1	24.9	82.9	16.9
1978	790,607	137,031	17.3	157,900	86.8	15.6	60.9	23.5	84.6	15.2
1977	741,828	125,333	16.9	160,000	78.4	16.0	61.8	22.2	87.3	12.5
Details on Page	100	68	100		71	68	68	68	69	69

SELECTED FINANCIAL HIGHLIGHTS

Table 1C

Income Data

(Millions of Dollars)

	Total Corporation Results				Steel Segment Results			
		Net Income				Net Income		
Year	Net Sales	Amount	% of Net Sales	% of Equity†	Net Sales	Amount	% of Net Sales	% of Equity†
1986	$41,912	$(6,094)	(14.5)	(43.5)	$24,891	$(4,203)	(16.9)	(60.6)
1985[R]	49,506	(1,016)	(2.1)	(6.7)	28,272	(1,834)	(6.5)	(19.5)
1984	53,472	(235)	(0.4)	(1.6)	30,005	(31)	(0.1)	(0.4)
1983	45,974	(2,603)	(5.7)	(13.4)	24,463	(2,231)	(9.1)	(19.8)
1982	55,255	(3,155)	(5.7)	(13.8)	28,239	(3,384)	(12.0)	(22.0)
1981	64,013	3,258	5.1	16.2	43,109	1,653	3.8	11.4
1980	55,313	1,634	3.0	8.6	37,163	681	1.8	4.8
1979	55,790	1,410	2.5	7.8	40,373	806	2.0	5.8
Details on Page:	10	10	10	10	11	11	11	11

†Based on stockholders' equity as of Dec. 31 of the prior year.

Table 1D

Cash Flow Data

(Millions of Dollars)

	Total Corporation Results				Steel Segment Results			
		Net Cash Provided (Used) from				Net Cash Provided (Used) from		
Year	Capital Expend.	Operations	Financing	Inc. (Dec.) In Cash & Mkt. Secs.	Capital Expend.	Operations	Financing	Inc. (Dec.) In Cash & Mkt. Secs.
1986	$1,925	$ 2,158	$ 2,430	$4,588	$ 863	$ (982)	$ 797	$ 185
1985[R]	3,451	333	(203)	129	1,641	(427)	353	(74)
1984	2,351	(196)	136	(60)	1,203	(428)	296	(132)
1983	3,137	(1,542)	1,179	(363)	1,850	(1,858)	1,556	(302)
1982	4,325	(8,739)	6,300	(2,439)	2,258	(1,990)	1,766	(224)
1981	3,506	1,174	435	1,608	2,371	689	(692)	(3)
1980	3,665	(472)	578	106	2,651	(748)	602	(146)
1979	3,823	(1,278)	995	(283)	2,469	(436)	221	(216)
Details on Page:	14	14	14	14	15	15	15	15

FINANCIAL STATISTICS

Financial data for 1985 and 1986 includes companies which made up 77% of the reported total raw steel production of the entire industry in 1986. Other years are based on results of companies representing varying percentages of the entire industry.

Table 2

Income Statement
Total Corporation

(Millions of Dollars)

	1986	1985[R]	1984	1983	1982	1981	1980	1979
REVENUES:								
Sales (Net billing value of products shipped and other services)	$41,911.5	$49,505.9	$53,472.2	$45,973.8	$55,255.3	$64,012.6	$55,312.9	$55,789.8
Interest, dividends and other income	264.7	433.4	670.3	634.5	1,042.8	1,298.1	931.8	683.4
Total Revenue	**42,176.2**	**49,939.3**	**54,142.5**	**46,608.3**	**56,298.1**	**65,310.7**	**56,244.7**	**56,473.2**
COSTS:								
Employment Costs	10,957.1	12,562.1	14,436.6	13,552.2	17,771.8	20,643.9	19,093.4	18,913.3
Materials, supplies, freight and other services, etc	26,443.4	30,855.7	32,821.9	28,766.9	35,919.0	37,671.1	32,184.6	32,185.9
Depreciation, depletion and amortization	2,686.2	2,709.1	2,559.1	2,342.7	2,562.4	2,178.6	2,023.5	1,924.3
Interest and other financial costs	1,527.7	1,691.0	2,059.1	1,675.6	1,794.3	938.1	934.0	809.4
Taxes other than income	1,494.8	1,698.2	1,700.2	1,600.8	NA	NA	NA	NA
Loss or (gain) on sales of assets	(116.3)	(189.4)	(433.8)	(35.3)	1,947.8	(1,070.1)	(133.7)	797.6
Loss or (gain) on provision for costs attributable to shutdown of facilities	690.8	974.0	249.2	1,696.3	—	—	—	—
Unusual items	4,896.3	181.8	438.2	39.3	(44.1)	(28.5)	—	(21.4)
Taxes on income	(570.5)	598.1	659.4	(215.7)	(498.2)	1,719.7	508.8	454.5
Total Costs	**48,009.5**	**51,080.6**	**54,469.9**	**49,422.8**	**59,453.0**	**62,052.8**	**54,610.6**	**55,063.6**
Extraordinary and other items net of taxes	(260.1)	125.2	112.3	211.4	NA	NA	NA	NA
Net Income	**$ (6,093.5)**	**$ (1,016.0)**	**$ (235.1)**	**$ (2,603.1)**	**$ (3,154.9)**	**$ 3,257.9**	**$ 1,634.1**	**$ 1,409.6**
Percent return on Sales	(14.5)	(2.1)	(0.4)	(5.7)	(5.7)	5.1	3.0	2.5
Percent return on Stockholders' Equity *	(43.5)	(6.7)	(1.6)	(13.4)	(13.8)	16.2	8.6	7.8

* Based on stockholders' equity as of Dec. 31 of the prior year.
Totals do not necessarily add due to rounding.
MEMO: In 1986 reporting companies represent: 62.8 million net tons of raw steel production and 50.8 million net tons of shipments of finished steel products.

Table 2A

Income Statement
Steel Segment

(Millions of Dollars)

	1986	1985[R]	1984	1983	1982	1981	1980	1979
REVENUES:								
Sales (Net billing value of products shipped and other services)	$24,891.3	$28,272.3	$30,005.2	$24,462.8	$28,238.6	$43,109.3	$37,162.7	$40,373.1
Interest, dividends and other income	120.4	162.2	328.1	514.8	492.0	653.8	583.7	418.4
Total Revenue	**25,011.7**	**28,434.4**	**30,333.3**	**24,977.6**	**28,730.6**	**43,763.1**	**37,746.4**	**40,791.5**
COSTS:								
Employment Costs	7,544.7	8,822.3	9,334.5	8,650.8	12,199.4	15,165.2	13,826.2	14,117.9
Materials, supplies, freight and other services, etc.	15,450.5	18,034.2	18,779.7	15,664.6	17,181.9	24,201.9	21,181.0	23,085.2
Depreciation, depletion and amortization	1,301.3	1,343.8	1,374.7	1,290.5	1,471.6	1,617.5	1,528.1	1,482.9
Interest and other financial costs	638.4	713.4	774.3	616.5	600.0	487.4	499.3	489.1
Taxes other than income	316.7	362.7	359.9	371.2	NA	NA	NA	NA
Loss or (gain) on sales of assets	(45.3)	3	(309.9)	(20.0)	2,021.4	(132.0)	34.7	759.9
Loss or (gain) on provision for costs attributable to shutdown of facilities	631.5	966.9	112.8	1,508.1	—	—	—	—
Unusual items	3,814.5	77.2	77.8	24.5	(24.8)	(28.5)	—	—
Taxes on income	(449.8)	(35.4)	21.0	(720.4)	(1,335.1)	798.2	(3.9)	50.8
Total Costs	**29,202.5**	**30,285.4**	**30,524.8**	**27,385.8**	**32,114.4**	**42,109.7**	**37,065.4**	**39,985.8**
Extraordinary and other items net of taxes	(12.1)	16.9	161.0	177.1	NA	NA	NA	NA
Net Income	**$ (4,202.9)**	**$ (1,834.0)**	**$ (30.5)**	**$ (2,231.1)**	**$ (3,383.8)**	**$ 1,653.4**	**$ 681.0**	**$ 805.7**
Percent return on Sales	(16.9)	(6.5)	(0.1)	(9.1)	(12.0)	3.8	1.8	2.0
Percent return on Stockholders' Equity *	(60.6)	(19.5)	(0.4)	(19.8)	(22.0)	11.4	4.8	5.8

* Based on stockholders' equity as of Dec. 31 of the prior year.
Totals do not necessarily add due to rounding.
MEMO: In 1986 reporting companies represent 62.8 million net tons of raw steel production and 50.8 million net tons of shipments of finished steel products.

Table 3

Balance Sheet
Total Corporation

(Millions of Dollars)

ASSETS	1986	1985[R]	1984	1983	1982	1981	1980	1979
Current Assets:								
Cash and marketable securities	$ 5,697.6	$ 1,098.0	$ 1,238.9	$ 1,343.9	$ 1,759.3	$ 4,178.0	$ 2,560.7	$ 2,450.9
Receivables, less allowances	3,987.6	5,048.2	6,456.5	6,406.1	5,767.1	8,878.2	8,002.1	6,958.9
Inventories	5,179.3	6,399.8	7,540.4	7,117.8	8,489.6	8,608.2	7,560.7	7,664.0
Other Current Assets	346.1	389.4	536.8	316.9	365.5	282.4	332.8	218.2
Total Current Assets	**15,210.6**	**12,935.4**	**15,772.6**	**15,184.7**	**16,381.5**	**21,946.8**	**18,456.3**	**17,292.0**
Long-term receivables & other investments	2,330.5	2,245.2	3,639.3	2,664.5	NA	NA	NA	NA
Fixed Assets								
Property, plant & equipment	52,590.9	54,730.7	52,517.5	50,525.8	56,044.6	48,683.4	46,654.3	43,759.4
Less—Depreciation, depletion & amortization	26,589.7	25,141.6	23,668.4	22,660.0	24,924.7	24,396.8	23,284.4	21,721.3
Net Fixed Assets	26,001.2	29,589.1	28,849.1	27,865.8	31,119.9	24,286.6	23,369.9	22,038.1
Other Assets	999.6	1,130.0	1,713.9	2,311.7	6,012.0	5,146.8	5,281.3	4,766.4
Total Assets	**$44,541.9**	**$45,899.7**	**$49,974.9**	**$48,026.7**	**$53,513.4**	**$51,380.2**	**$47,107.5**	**$44,096.5**
LIABILITIES AND STOCKHOLDERS' EQUITY								
Current Liabilities								
Accounts Payable	$ 3,539.1	$ 4,537.3	$ 5,470.2	$ 4,969.0	$ NA	$ NA	$ NA	$ NA
Accrued taxes incl. Federal income taxes	825.8	1,115.6	1,438.8	1,355.4	NA	NA	NA	NA
Long-term debt maturing within one year	3,581.5	542.1	1,248.3	614.5	501.3	492.5	344.0	383.4
All other current liabilities	3,169.0	3,992.5	4,221.3	4,353.3	10,812.1	11,728.4	10,719.9	9,692.9
Total Current Liabilities	**11,115.4**	**10,187.5**	**12,378.6**	**11,292.2**	**11,313.4**	**12,220.9**	**11,063.9**	**10,076.3**
Long-term debt less amount maturing within one year	10,925.6	13,541.2	13,983.0	14,443.1	15,832.0	9,934.8	10,355.5	9,659.1
Deferred income tax	914.8	1,596.0	1,203.0	896.3	1,994.3	2,941.7	2,004.6	1,877.0
Liabilities attributable to shutdown of facilities	1,690.0	2,400.2	2,366.2	2,296.1	NA	NA	NA	NA
All other other long-term liabilities & reserves	11,604.2	3,786.9	4,139.7	3,495.3	4,657.5	2,912.0	3,049.1	2,906.8
Minority interest in companies not wholly owned	22.4	24.9	48.5	57.8	267.6	469.8	482.3	466.2
Total Liabilities	**36,272.4**	**31,536.7**	**34,124.0**	**32,480.8**	**34,064.8**	**28,479.2**	**26,955.4**	**24,985.4**
Redeemable preferred stock (RPS)	371.0	366.2	573.7	501.1	20.8	—	—	—
Stockholders' Equity	**7,898.5**	**13,996.8**	**15,277.2**	**15,044.8**	**19,427.8**	**22,901.0**	**20,152.1**	**19,111.1**
Total Liabilities RPS and Stockholders' Equity	**$44,541.9**	**$45,899.7**	**$49,974.9**	**$48,026.7**	**$53,513.4**	**$51,380.2**	**$47,107.5**	**$44,096.5**
Memo: LIFO inventory reserves included above	$ 2,501.6	$ 3,591.6	$ 4,304.7	$ 3,235.7	$ 6,474.0	$ 7,333.9	$ 6,911.5	$ 6,333.7

Table 3A

Balance Sheet
Steel Segment

(Millions of Dollars)

ASSETS	1986	1985[R]	1984	1983	1982	1981	1980	1979
Current Assets:								
Cash and marketable securities	$ 427.1	$ 237.5	$ 402.1	$ 606.9	$ 952.5	$ 1,157.7	$ 1,151.9	$ 1,293.6
Receivables, less allowances	2,861.9	3,117.5	3,213.0	3,408.3	2,727.5	4,385.5	4,710.1	3,939.3
Inventories	3,045.8	3,546.2	4,216.5	3,320.7	4,034.4	5,379.4	4,693.6	5,039.6
Other Current Assets	129.6	116.8	198.8	204.7	226.5	193.7	263.3	161.0
Total Current Assets	**6,464.4**	**7,018.0**	**8,030.4**	**7,540.6**	**7,940.9**	**11,116.3**	**10,818.9**	**10,433.5**
Long-term receivables & other investments	728.9	903.1	1,047.5	1,700.0	NA	NA	NA	NA
Fixed Assets:								
Property, plant & equipment	32,613.0	33,927.7	35,198.4	34,283.2	38,518.5	38,971.2	37,716.9	36,000.5
Less—Depreciation, depletion & amortization	19,184.4	18,236.3	18,589.0	18,401.8	20,681.5	20,768.4	19,976.2	19,163.4
Net Fixed Assets	13,428.6	15,691.4	16,609.4	15,881.4	17,837.0	18,202.8	17,740.7	16,837.1
Other Assets	353.6	337.6	499.6	349.3	2,101.3	2,376.7	2,210.6	2,001.7
Total Assets	**$20,975.5**	**$23,950.1**	**$26,186.9**	**$25,471.3**	**$27,879.2**	**$31,695.8**	**$30,770.2**	**$29,272.3**
LIABILITIES AND STOCKHOLDERS' EQUITY								
Current Liabilities:								
Accounts Payable	$ 1,654.7	$ 2,158.1	$ 2,261.4	$ 2,287.6	$ NA	$ NA	$ NA	$ NA
Accrued taxes incl. Federal income taxes	333.8	508.6	485.1	385.5	NA	NA	NA	NA
Long-term debt maturing within one year	378.2	294.4	571.4	255.9	197.8	266.5	128.1	163.5
All other current liabilities	1,728.9	2,564.7	2,392.0	2,726.8	5,136.4	6,418.7	6,442.7	6,049.1
Total Current Liabilities	**4,095.6**	**5,525.8**	**5,709.9**	**5,655.8**	**5,334.2**	**6,685.2**	**6,570.8**	**6,212.6**
Long-term debt less amount maturing within one year	5,403.9	6,874.6	6,380.0	7,208.2	7,817.9	6,163.7	6,822.5	5,988.4
Deferred income tax	178.2	188.2	277.1	264.2	750.2	1,696.4	1,128.6	978.2
Liabilities attributable to shutdown of facilities	1,465.7	2,089.3	2,019.7	2,085.7	NA	NA	NA	NA
All other other long-term liabilities & reserves	6,857.4	2,087.2	2,138.2	1,809.8	2,697.3	1,759.0	1,759.5	1,749.2
Minority interest in companies not wholly owned	14.8	17.4	22.8	18.2	19.5	30.9	31.1	35.0
Total Liabilities	**18,015.6**	**16,782.5**	**16,547.7**	**17,041.9**	**16,619.1**	**16,335.2**	**16,312.5**	**14,963.4**
Redeemable preferred stock (RPS)	226.6	226.5	228.2	228.3	—	—	—	—
Stockholders' Equity	**2,733.3**	**6,941.1**	**9,411.0**	**8,201.1**	**11,260.1**	**15,360.6**	**14,457.7**	**14,308.9**
Total Liabilities RPS and Stockholders' Equity	**$20,975.5**	**$23,950.1**	**$26,186.9**	**$25,471.3**	**$27,879.2**	**$31,695.8**	**$30,770.2**	**$29,272.3**
Memo: LIFO inventory reserves included above	$ 2,196.2	3,026.8	$ 3,497.6	$ 2,750.6	$ 5,101.7	$ 6,067.1	$ 5,800.8	$ 5,115.0

Table 4

Cash Flow Statement
Total Corporation

(Millions of Dollars)

	1986	1985[R]	1984	1983	1982	1981	1980	1979
Cash Provided From Operations								
Net Income	$ (6,075.5)	$ (1,034.6)	$ (237.3)	$ (2,652.9)	$ (3,176.3)	$ 3,242.1	$ 1,610.1	$ 1,360.2
Depreciation	2,685.6	2,709.0	2,557.9	2,344.7	2,572.0	2,197.2	2,042.5	1,944.1
Deferred Income Taxes	(499.2)	173.0	182.3	(581.7)	(882.1)	832.9	220.3	34.3
Other noncash P&L items	6,194.4	1,052.6	816.1	1,686.1	2,234.7	38.2	4.9	682.7
Total from earnings	2,305.4	2,899.9	3,319.0	796.2	748.3	6,310.4	3,877.8	4,021.3
Changes in working capital	913.4	771.8	(717.5)	148.0	1,383.2	(696.6)	50.2	(736.5)
Cash provided from operations	3,218.9	3,671.8	2,601.5	944.2	2,131.5	5,613.8	3,928.0	3,284.8
Cash provided (used) for non operating units	(180.1)	(316.3)	(145.5)	(313.3)	79.3	(172.1)	(96.6)	(54.2)
Cash (used) for Dividends	(421.8)	(406.7)	(483.3)	(470.9)	(660.2)	(727.0)	(678.9)	(656.5)
Long Term Investments								
Additions to plant and equipment	(1,925.2)	(3,450.6)	(2,350.8)	(3,137.4)	(4,324.9)	(3,506.3)	(3,665.0)	(3,822.7)
Disposals of plant and equipment	1,773.3	635.5	680.6	516.2	1,058.8	322.9	300.2	196.0
Other provided (used)	(306.9)	199.1	(498.7)	918.9	(7,023.0)	(357.5)	(259.7)	(225.5)
Cash (used) from operations	(458.8)	(2,616.1)	(2,168.9)	(1,702.3)	(10,289.1)	(3,540.9)	(3,624.5)	(3,852.2)
Net cash provided (used) from operations	2,158.0	332.7	(196.2)	(1,542.3)	(8,738.5)	1,173.8	(472.0)	(1,278.1)
Cash Provided From (Used For) Financing								
Net Additions/Reduction In								
Transfers (to) from corporate	—	—	—	—	—	—	—	—
Long term debt	(519.5)	(682.9)	(916.7)	332.1	5,635.0	(46.4)	539.6	722.5
Short term debt	2,691.8	19.9	767.2	(292.3)	229.2	331.9	(137.8)	142.3
Stock	257.2	459.7	285.6	1,139.6	435.6	149.0	176.1	130.1
Net cash Provided from (used for) financing	2,429.5	(203.3)	136.1	1,179.4	6,299.8	434.5	577.9	994.9
Increase (decrease) in cash and marketable securities	$ 4,587.6	$ 129.4	$ (60.1)	$ (362.9)	$ (2,438.7)	$ 1,608.3	$ 105.9	$ (283.2)

Table 4A

Cash Flow Statement
Steel Segment

(Millions of Dollars)

	1986	1985[R]	1984	1983	1982	1981	1980	1979
Cash Provided From Operations								
Net Income	$ (4,183.0)	$ (1,803.0)	$ (92.7)	$ (2,235.0)	$ (3,384.4)	$ 1,653.8	$ 681.4	$ 806.6
Depreciation	1,301.3	1,343.7	1,373.0	1,292.1	1,481.2	1,636.1	1,547.2	1,502.7
Deferred Income Taxes	(486.1)	(55.4)	42.8	(722.9)	(854.4)	762.9	255.8	(144.6)
Other noncash P&L items	4,604.2	1,017.0	156.2	1,366.2	2,036.6	(39.8)	8.2	677.5
Total from earnings	1,236.4	502.2	1,479.3	(299.6)	(721.0)	4,013.0	2,492.6	2,842.2
Changes in working capital	850.2	527.1	(829.0)	(94.1)	1,677.3	(463.6)	50.0	(297.2)
Cash provided from operations	2,086.6	1,029.4	650.3	(393.7)	956.3	3,549.4	2,542.6	2,545.0
Cash provided (used) for non operating units	(134.8)	(115.3)	(145.6)	(160.6)	63.3	(161.2)	(83.6)	(45.1)
Cash (used) for Dividends	(119.5)	(138.7)	(201.5)	(203.3)	(413.8)	(774.9)	(714.6)	(521.3)
Long Term Investments								
Additions to plant and equipment	(862.7)	(1,640.9)	(1,203.1)	(1,850.2)	(2,258.2)	(2,370.6)	(2,650.6)	(2,469.4)
Disposals of plant and equipment	508.7	293.1	210.7	48.5	602.8	166.2	227.1	51.7
Other provided (used)	(496.6)	145.6	260.9	701.0	(940.6)	279.6	(69.1)	2.7
Cash (used) from operations	(850.6)	(1,202.3)	(731.5)	(1,100.7)	(2,596.0)	(1,924.8)	(2,492.6)	(2,415.0)
Net cash provided (used) from operations	981.6	(426.9)	(428.3)	(1,858.3)	(1,990.2)	688.5	(748.2)	(436.4)
Cash Provided From (Used For) Financing								
Net Additions/Reduction In:								
Transfers (to) from corporate	(495.6)	(299.8)	(435.4)	46.5	(242.6)	(186.4)	(87.5)	(94.5)
Long term debt	12.3	504.4	62.4	524.1	1,814.7	(638.4)	805.8	244.1
Short term debt	(405.5)	(15.0)	524.7	51.3	106.7	121.3	(179.5)	51.8
Stock	91.9	162.9	144.4	934.1	87.2	11.5	63.3	19.1
Net cash Provided from (used for) financing	(797.0)	352.5	296.1	1,556.0	1,766.0	(692.0)	602.1	220.5
Increase (decrease) in cash and marketable securities	184.7	(74.4)	$ (132.2)	$ (302.3)	$ (224.2)	$ (3.5)	$ (146.1)	$ (215.9)
MEMO:								
Capital expenditures for environmental facilities	$70.8	$120.2	$137.7	$142.9	$264.5	$495.8	$518.0	$650.8

EMPLOYMENT AND WAGE DATA

The data on number of employees, hours worked, employment cost, payroll cost per hour and employment cost per hour as shown on tables 5 and 6 cover those employees engaged in the operation of coke ovens, blast furnaces, steelmaking furnaces and finishing mills, etc. and the sale of products thereof as reported by companies comprising about 80% of 1986 total raw steel production.

Indexes on output per manhour in the iron and steel industry are those compiled by the United States Department of Labor, Bureau of Labor Statistics.

Table 5

Total Employment Cost per Hour Worked—Wage Employees

(Covering those employees engaged in the production of iron and steel products)

Year	Pay for Hours Worked						Memo	Other Payroll Costs						Year
	Straight Time					Subtotal								
	Regular (1)	Shift Differential (2)	Sunday Premium (3)	Overtime Premium (4)	Premium For Work On Holidays (5)	Pay For Hours Worked (6)	Average Hourly Earnings In Steel (BLS) (7)	Pay for Holidays Not Worked (8)	Vacation Pay (9)	All Other (10)	Total Payroll Cost Per Hour (11)	Employee* Benefits Cost Per Hour (12)	Total Employment Cost Per Hour (13)	
1986	$13.224	$.157	$.294	$.671	$.284	$14.630	$14.53	$.301	$1.109	$.179	$16.219	$7.023	$23.242	1986
1985	13.023	.157	.244	.574	.274	14.272	13.98	.339	1.269	.117	15.997	6.815	22.812	1985
1984	12.570	.158	.234	.514	.255	13.731	13.53	.312	1.135	.165	15.343	5.955	21.298	1984
1983	12.548	.156	.255	.409	.259	13.627	13.40	.366	.968	.133	15.094	7.119	22.213	1983
1982	13.012	.157	.375	.276	.235	14.055	13.96	.499	2.165	.089	16.808	6.973	23.781	1982
1981	12.092	.171	.434	.432	.298	13.427	13.11	.350	1.601	.071	15.449	4.709	20.158	1981
1980	10.971	.135	.377	.336	.295	12.114	11.84	.333	1.574	.156	14.177	4.274	18.451	1980
1979	9.822	.121	.368	.427	.281	11.019	10.77	.247	1.230	.055	12.551	3.370	15.921	1979
1978	8.890	.120	.333	.391	.242	9.976	9.70	.194	1.051	.049	11.270	3.033	14.303	1978
1977	8.029	.117	.280	.294	.193	8.913	8.67	.200	1.015	.123	10.251	2.785	13.036	1977

*Includes cost for retired employees as well as active

Table 6

Number of Employees, Hours Worked and Employment Cost

(Covering those employees engaged in the production and sale of iron and steel products)

Year	Employees Receiving Wages					Employees Receiving Salaries			All Employees Receiving Wages and Salaries					Year
	Average Number of Employees	Total Hours Worked (000)	Avg. Hrs. Worked Per Week Per Employee	Employment Cost (millions)	Total Employment Cost Per Hour	Average Number of Employees	Total Hours Worked (000)	Employment Cost (Millions)	Average Number of Employees	Total Hours Worked (000)	Avg. Hrs. Worked Per Week Per Employee	Employment Cost (Millions)	Total Employment Cost Per Hour	
1986	128,418	259,173	38.7	$6,023.8	$23.242	46,365	96,719	$2,362.9	174,783	355,892	39.1	$8,386.7	$23.565	1986
1985	150,906	300,456	38.2	6,854.1	22.812	57,262	118,292	2,887.0	208,168	418,747	38.6	9,741.1	23.262	1985
1984	170,694	339,228	38.0	7,224.9	21.298	65,308	134,838	3,119.5	236,002	474,067	38.4	10,344.4	21.821	1984
1983	168,852	324,997	36.9	7,219.1	22.213	73,893	149,814	3,459.4	242,745	474,811	37.5	10,678.5	22.490	1983
1982	198,477	345,093	33.3	8,206.6	23.781	90,960	180,535	4,197.9	289,437	525,628	34.8	12,404.5	23.599	1982
1981	286,219	543,324	36.4	10,952.4	20.158	104,695	209,373	4,626.7	390,914	752,697	36.9	15,579.1	20.698	1981
1980	291,483	544,220	35.7	10,041.6	18.451	107,346	213,575	4,196.1	398,829	757,795	36.3	14,237.7	18.788	1980
1979	341,931	669,045	37.5	10,651.8	15.921	111,250	225,033	3,996.0	453,181	894,078	37.8	14,647.8	16.383	1979
1978	339,155	669,720	37.9	9,578.8	14.303	110,042	222,462	3,600.1	449,197	892,182	38.1	13,178.9	14.771	1978
1977	337,396	645,853	36.7	8,419.1	13.036	114,992	230,051	3,388.0	452,388	875,904	37.1	11,807.1	13.480	1977

Memo: Net shipments (thousand net tons) for companies reporting employment data are as follows: 1986—54,352; 1985—60,482; 1984—62,158; 1983—57,139; 1982—51,825.

Table 7

BLS Index of Output Per Man-hour in the Steel Industry

(All Employees)

Year	1977 = 100
1977	100.0
1978	108.3
1979	106.9
1980	102.9
1981	112.0
1982	90.9
1983	116.8
1984[P]	131.3
1985[P]	138.5
1986[P]	137.4
Average Annual Increase* 1977–1986	3.7

**Based on least squares method.*

Source: United States Department of Labor, Bureau of Labor Statistics

NOTE: Although the output per man-hour data relate output to one input—labor time—they do not measure the specific contribution of labor, of capital, or of any other factor to production. In short, they do not reflect solely changes in the productiveness of labor. Rather, they reflect the joint effect of a number of interrelated influences such as changes in technology, capital investment per worker, utilization of capacity, layout and flow of material, skill of the work force, managerial skill, and labor-management relations.

Table 8

Occupational Injury/Illness

(Covering only those employees who were engaged in the production of iron and steel products as reported by companies comprising 76% of total 1986 raw steel production)

	1986	1985	1984	1983	1982
1. Aggregate number of man-hours (millions)	330	402	462	468	515
2. OSHA recordable injuries/illnesses:					
a. Fatalities	22	16	21	25	30
b. Lost workday cases	4,293	4,448	5,090	4,587	4,441
c. Other medical treatment cases	9,240	10,037	11,180	11,232	13,363
d. **Total** (2a through 2c)	**13,555**	**14,501**	**16,291**	**15,844**	**17,834**
3. Frequency rate (number of injuries/illnesses per 200,000 man-hours worked)	8.217	7.211	7.054	6.773	6.929
4. OSHA workdays lost (thousands)	147	135	145	126	141
5. Severity rate (days lost per 200,000 man-hours worked)	89	67	63	54	55

NOTE: Recordable injuries are reported as specified by the Bureau of Labor Statistics, U.S. Department of Labor pursuant to Section 24(a) of the Occupational Safety and Health Act of 1970.
The U.S. Department of Labor, Bureau of Labor Statistics issued revised record keeping guidelines for Occupational Injury and Illness effective April 1986.
Some reporting companies have issued their 1986 figures to reflect the new guidelines; therefore, results may not be comparable to past years.

SHIPMENTS—STEEL PRODUCTS

Data in this section are expressed in terms of Gross Shipments and Net Shipments. Gross shipments represent the aggregate tonnage shipped by reporting companies including steel consumed by the companies in their own construction, maintenance, repair and operations, as well as in their own manufacture of fabricated products. Net shipments eliminate tonnage duplication by deducting from the gross total those shipments from one reporting company to another reporting company for conversion, further processing or resale.

Table 9

Shipments of Steel Mill Products—1986
All Grades—(Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Total Gross Shipments	Less Shipments to Reporting Companies	Total Net Shipments	Percent of Total Net Shipments
Ingots and steel castings	307,212	63,601	243,611	0.3
Blooms, slabs, billets	1,529,861	288,223	1,241,638	1.8
Skelp	4,997	—	4,997	—
Wire rods	3,609,375	145,548	3,463,827	4.9
Total Semi-Finished	**5,451,445**	**497,372**	**4,954,073**	**7.1**
Structural shapes (3" & over)	4,232,913		4,232,913	6.0
Steel piling	294,719		294,719	0.4
Plates	3,575,810	11,004	3,564,806	5.1
Total Shapes and Plates	**8,103,442**	**11,004**	**8,092,438**	**11.5**
Rails—Standard (over 60 lbs.)	444,468	—	444,468	0.6
—All other	16,540	—	16,540	—
Railroad accessories	101,071	—	101,071	0.1
Wheels (rolled and forged)	50,127	—	50,127	0.1
Axles	27,991	—	27,991	—
Total Rails and Accessories	**640,197**	—	**640,197**	**0.9**
Bars—Hot rolled	6,213,310	565,683	5,647,627	8.0
—Bar-Size light shapes	911,560	79	911,481	1.3
—Reinforcing	4,298,822	—	4,298,822	6.1
—Cold finished	1,257,967	530	1,257,437	1.8
Tool steel	56,809	1,034	55,775	0.1
Total Bars and Tool Steel	**12,738,468**	**567,326**	**12,171,142**	**17.3**

Table 9 *(Continued)*

Shipments of Steel Mill Products—1986
All Grades—(Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Total Gross Shipments	Less Shipments to Reporting Companies	Total Net Shipments	Percent of Total Net Shipments
Pipe and tubing—Standard	723,640	13,924	709,716	1.0
—Oil country goods	484,779	2,058	482,721	0.7
—Line	604,062	—	604,062	0.9
—Mechanical	768,049	19,610	748,439	1.1
—Pressure	72,130	418	71,712	0.1
—Structural	177,568	—	177,568	0.3
—Stainless	43,363	1,123	42,240	0.1
Total Pipe and Tubing	**2,873,591**	**37,133**	**2,836,458**	**4.0**
Wire—Drawn	802,538	279	802,259	1.1
—Nails and staples	204,896	—	204,896	0.3
—Barbed and twisted	40,679	—	40,679	0.1
—Woven wire fence	11,594	—	11,594	—
—Bale ties and baling wire	20,899	—	20,899	—
Total Wire and Wire Products	**1,080,606**	**279**	**1,080,327**	**1.5**
Black plate	216,280	6	216,274	0.3
Tin plate	2,581,192	—	2,581,192	3.7
Tin free steel	935,331	—	935,331	1.3
Tin mill products—All other	69,146	—	69,146	0.1
Total Tin Mill Products	**3,801,949**	**6**	**3,801,943**	**5.4**
Sheets—Hot rolled	13,324,002	1,157,063	12,166,939	17.3
—Cold rolled	13,299,696	49,540	13,250,156	18.9
Sheets & strip—Galvanized—Hot dipped	7,236,508	12,188	7,224,320	10.3
—Electrolytic	898,018	—	898,018	1.3
—All other metallic coated	1,176,584	—	1,176,584	1.7
—Electrical	425,354	9,776	415,578	0.6
Strip—Hot rolled	762,399	127,355	635,044	0.9
—Cold rolled	924,605	5,043	919,562	1.3
Total Sheets and Strip	**38,047,166**	**1,360,965**	**36,686,201**	**52.2**
Total Shipments	**72,736,864**	**2,474,085**	**70,262,779**	**100.0**

Table 10

Shipments of Steel Mill Products—1986
By Grades—(Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Carbon	%	Alloy	%	Stainless	%	Total	%
Ingots and steel castings	72,859	0.1	162,112	2.5	8,640	0.7	243,611	0.3
Blooms, slabs, billets	909,580	1.5	291,111	4.4	40,947	3.4	1,241,638	1.8
Skelp	4,997	—	—	—	—	0.0	4,997	0.0
Wire rods	3,380,095	5.4	47,333	0.7	36,399	3.1	3,463,827	4.9
Total Semi-Finished	**4,367,531**	**7.0**	**500,556**	**7.6**	**85,986**	**7.2**	**4,954,073**	**7.1**
Structural shapes (3" & over)	3,786,805	6.1	446,108	6.8	—	—	4,232,913	6.0
Steel piling	263,962	0.4	30,757	0.5	—	—	294,719	0.4
Plates	2,506,259	4.0	942,688	14.4	115,859	9.8	3,564,806	5.1
Total Shapes and Plates	**6,557,026**	**10.5**	**1,419,553**	**21.7**	**115,859**	**9.8**	**8,092,438**	**11.5**
Rails								
Standard (over 60 lbs.)	416,450	0.7	28,018	0.4	—	—	444,468	0.6
All other	16,540	—	—	—	—	—	16,540	—
Railroad accessories	101,071	0.2	—	—	—	—	101,071	0.1
Wheels (rolled and forged)	50,127	0.1	—	—	—	—	50,127	0.1
Axles	27,991	—	—	—	—	—	27,991	—
Total Rails and Accessories	**612,179**	**1.0**	**28,018**	**0.4**	**—**	**—**	**640,197**	**0.9**
Bars								
Hot rolled	4,238,569	6.8	1,372,263	20.9	36,795	3.1	5,647,627	8.0
Bar-size light shapes	911,481	1.5	(Included in hot rolled bars)				911,481	1.3
Reinforcing	4,268,223	6.8	30,599	0.5	—	—	4,298,822	6.1
Cold finished	1,008,197	1.6	167,011	2.5	82,229	6.9	1,257,437	1.8
Tool steel	—	—	55,775	0.9	—	—	55,775	0.1
Total Bars and Tool Steel	**10,426,470**	**16.7**	**1,625,648**	**24.8**	**119,024**	**10.0**	**12,171,142**	**17.3**
Pipe and tubing								
Standard	706,327	1.1	3,389	0.1	—	—	709,716	1.0
Oil country goods	414,164	0.7	68,557	1.0	—	—	482,721	0.7
Line	435,904	0.7	168,158	2.6	—	—	604,062	0.8
Mechanical	492,331	0.8	256,108	3.9	—	—	748,439	1.1
Pressure	50,670	0.1	21,042	0.3	—	—	71,712	0.1
Structural	169,741	0.3	7,827	0.1	—	—	177,568	0.3
Stainless	—	—	—	—	42,240	3.6	42,240	0.1
Total Pipe and Tubing	**2,269,137**	**3.6**	**525,081**	**8.0**	**42,240**	**3.6**	**2,836,458**	**4.0**

Table 10 *(continued)*

Shipments of Steel Mill Products—1986
By Grades—(Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Carbon	%	Alloy	%	Stainless	%	Total	%
Wire:								
Drawn	759,828	1.2	17,776	0.3	24,655	2.1	802,259	1.1
Nails and staples	204,896	0.3	—	—	—	—	204,896	0.3
Barbed and twisted	40,679	0.1	—	—	—	—	40,679	0.1
Woven wire fence	11,594	—	—	—	—	—	11,594	0.0
Bale ties and baling wire	20,899	—	—	—	—	—	20,899	0.0
Total Wire and Wire Products	**1,037,896**	**1.7**	**17,776**	**0.3**	**24,655**	**2.1**	**1,080,327**	**1.5**
Black plate	216,274	0.3	—	—	—	—	216,274	0.3
Tin plate	2,581,192	4.1	—	—	—	—	2,581,192	3.7
Tin free Steel	935,331	1.5	—	—	—	—	935,331	1.3
Tin mill products—All other	69,146	0.1	—	—	—	—	69,146	0.1
Total Tin Mill Products	**3,801,943**	**6.1**	**—**	**—**	**—**	**—**	**3,801,943**	**5.4**
Sheets:								
Hot rolled	10,885,163	17.4	1,228,384	18.7	53,392	4.5	12,166,939	17.3
Cold rolled	12,433,279	19.9	253,421	3.9	563,456	47.5	13,250,156	18.9
Sheets and strip:								
Galvanized:								
Hot dipped	6,866,699	11.0	357,621	5.5	—	—	7,224,320	10.3
Electrolytic	898,018	1.4	—	—	—	—	898,018	1.3
All other metallic coated	1,110,814	1.8	65,770	1.0	—	—	1,176,584	1.7
Electrical	26,688	—	388,890	5.9	—	—	415,578	0.6
Strip:								
Hot rolled	537,730	0.9	92,746	1.4	4,568	0.4	635,044	0.9
Cold rolled	689,010	1.1	52,566	0.8	177,986	15.0	919,562	1.3
Total Sheets and Strip	**33,447,401**	**53.5**	**2,439,398**	**37.2**	**799,402**	**67.3**	**36,686,201**	**52.2**
Total Net Shipments	**62,519,583**	**100.0**	**6,556,030**	**100.0**	**1,187,166**	**100.0**	**70,262,779**	**100.0**
Shipments to reporting companies	2,189,466	—	174,115	—	110,504	—	2,474,085	—
Total Gross Shipments	**64,709,049**	**—**	**6,730,145**	**—**	**1,297,670**	**—**	**72,736,864**	**—**

Table 11

Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

Steel Products	1986		1985		1984		1983		1982	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Ingots and steel castings	244	0.3	256	0.4	275	0.4	238	0.4	246	0.4
Blooms, slabs and billets	1,242	1.8	1,118	1.5	1,031	1.4	760	1.1	1,035	1.7
Skelp	5	...	9	...	11	...	5	...	2	...
Wire rods	3,464	4.9	2,962	4.0	3,090	4.2	2,857	4.2	2,411	3.9
Structural shapes (3" & over)	4,233	6.0	4,373	6.0	3,868	5.2	3,364	5.0	3,313	5.4
Steel piling	295	0.4	326	0.5	288	0.4	258	0.4	250	0.4
Plates	3,565	5.1	4,327	5.9	4,339	5.9	3,816	5.6	4,146	6.7
Rails—Standard (over 60 lbs.)	444	0.6	579	0.9	933	1.3	611	0.9	498	0.8
—All other	17	...	25	...	32	...	23	...	19	...
Railroad accessories	101	0.1	121	0.2	182	0.3	177	0.3	157	0.3
Wheels (rolled and forged)	50	0.1	68	0.1	59	0.1	52	0.1	72	0.1
Axles	28	...	33	0.1	33	...	21	...	36	0.1
Bars—Hot rolled	5,648	8.0	5,698	7.8	6,070	8.2	5,129	7.6	4,757	7.7
—Bar-Size light shapes	911	1.3	1,329	1.8	1,184	1.6	1,070	1.6	948	1.5
—Reinforcing	4,299	6.1	4,326	5.9	4,432	6.0	4,275	6.3	4,049	6.6
—Cold finished	1,257	1.8	1,255	1.7	1,484	2.0	1,179	1.7	1,015	1.7
Tool steel	56	0.1	60	0.1	61	0.1	46	0.1	44	0.1
Pipe and tubing—Standard	710	1.0	855	1.1	743	1.0	812	1.2	962	1.5
—Oil country goods	483	0.7	1,299	1.8	1,406	1.9	678	1.0	1,759	2.9
—Line	604	0.9	775	1.1	775	1.0	623	0.9	1,093	1.8
—Mechanical	748	1.1	812	1.1	940	1.3	748	1.1	762	1.2
—Pressure	72	0.1	87	0.1	89	0.1	88	0.1	108	0.2
—Structural	177	0.3	219	0.3	270	0.4	238	0.4	301	0.5
—Stainless	42	0.1	49	0.1	52	0.1	57	0.1	41	0.1
Wire—Drawn	802	1.1	874	1.2	963	1.3	1,010	1.5	1,003	1.6
—Nails and staples	205	0.3	170	0.2	147	0.2	163	0.2	123	0.2
—Barbed and twisted	41	0.1	38	0.1	52	0.1	98	0.1	65	0.1
—Woven wire fence	11		20		26		49	0.1	74	0.1
—Bale ties and baling wire	21		34	0.1	35	0.1	39	0.1	43	0.1

Table 11 *(continued)*

Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

	1986		1985		1984		1983		1982	
Steel Products	**Tons**	**%**	**Tons**	**%**	**Tons**	**%**	**Tons**	**%**	**Tons**	**%**
Black plate	216	0.3	215	0.3	286	0.4	352	0.5	319	0.5
Tin plate	2,581	3.7	2,611	3.6	2,765	3.7	2,925	4.4	3,018	4.9
Tin free Steel	935	1.3	889	1.2	945	1.3	962	1.4	918	1.5
Tin mill products—All other	69	0.1	58	0.1	66	0.1	69	0.1	66	0.1
Sheets—Hot rolled	12,167	17.3	12,952	17.7	13,133	17.8	11,619	17.2	9,052	14.7
—Cold rolled	13,250	18.9	13,574	18.6	13,664	18.5	13,781	20.4	11,132	18.1
Sheets and strip—Galvanized—Hot dipped	7,224	10.3	6,850	9.4	6,100	8.3	5,793	8.6	4,878	7.9
—Electrolytic	898	1.3	697	0.9	659	0.9	641	0.9	491	0.8
—All other metallic coated	1,177	1.7	1,122	1.5	1,109	1.5	946	1.4	694	1.1
—Electrical	416	0.6	413	0.6	490	0.7	458	0.7	445	0.7
Strip—Hot rolled	635	0.9	586	0.8	650	0.9	633	0.9	498	0.8
—Cold rolled	920	1.3	876	1.2	1,002	1.3	920	1.4	724	1.2
Total Steel Mill Products	**70,263**	**100.0**	**73,043**	**100.0**	**73,739**	**100.0**	**67,583**	**100.0**	**61,567**	**100.0**
Carbon	62,520	89.0	64,360	88.1	65,009	88.2	60,292	89.2	53,947	87.6
Stainless and heat resisting	1,187	9.3	1,251	1.7	1,248	1.7	1,137	1.7	894	1.5
Alloy (other than stainless)	6,556	1.7	7,432	10.2	7,482	10.1	6,154	9.1	6,726	10.9
Total Steel Mill Product Shipment By Months*										
January	6,437		6,017		5,980		4,583		5,608	
February	5,799		5,598		6,150		4,588		5,434	
March	6,142		6,344		7,240		5,969		6,163	
April	6,283		6,425		6,472		5,399		5,488	
May	6,212		6,519		6,948		5,612		5,149	
June	6,007		6,125		6,686		5,986		5,372	
July	5,815		5,710		5,820		5,045		4,514	
August	5,364		6,064		6,033		5,789		4,724	
September	5,608		5,848		5,454		5,893		4,760	
October	5,923		6,308		6,087		6,078		4,309	
November	4,899		5,654		5,317		6,014		4,088	
December	5,199		5,821		4,867		6,269		4,234	
Total*	**70,263**		**73,043**		**73,739**		**67,583**		**61,567**	

*Totals include adjustments not shown in monthly figures

Table 11 *(continued)*

Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

	1981		1980		1979		1978		1977	
Steel Products	**Tons**	**%**	**Tons**	**%**	**Tons**	**%**	**Tons**	**%**	**Tons**	**%**
Ingots and steel castings	461	0.5	445	0.6	504	0.5	516	0.5	423	0.5
Blooms, slabs and billets	2,185	2.5	2,185	2.6	2,095	2.1	1,969	2.0	1,736	1.9
Skelp	18	..	24		35		31	0.1	31	
Wire rods	3,040	3.4	2,688	3.2	2,861	2.9	2,554	2.6	1,804	2.0
Structural shapes (3" & over)	4,929	5.6	4,861	5.8	5,303	5.3	4,667	4.7	4,035	4.4
Steel piling	282	0.3	346	0.4	293	0.3	360	0.4	347	0.4
Plates	7,441	8.4	8,080	9.6	9,035	9.0	8,601	8.8	7,529	8.3
Rails—Standard (over 60 lbs.)	907	1.0	1,085	1.3	1,122	1.1	946	1.0	1,109	1.2
—All other	48	0.1	53	0.1	48	0.1	38		37	0.1
Joint bars	10		17		19		14		17	
Tie plates	213	0.3	205	0.2	337	0.3	255	0.2	264	0.3
Track spikes	81	0.1	85	0.1	101	0.1	97	0.1	103	0.1
Wheels (rolled and forged)	110	0.1	159	0.2	180	0.2	165	0.2	189	0.2
Axles	100	0.1	193	0.2	218	0.2	188	0.2	144	0.2
Bars—Hot rolled	6,890	7.8	5,961	7.1	8,493	8.5	8,758	9.0	8,369	9.2
—Bar-Size light shapes	1,473	1.7	950	1.1	1,466	1.5	1,277	1.3	993	1.1
—Reinforcing	4,612	5.2	4,684	5.6	5,303	5.3	4,704	4.8	4,179	4.6
—Cold finished	1,631	1.8	1,585	1.9	2,245	2.2	2,084	2.1	1,794	1.9
Tool steel	67	0.1	79	0.1	95	0.1	92	0.1	85	0.1
Pipe and tubing—Standard	1,858	2.1	1,773	2.1	1,952	1.9	2,054	2.1	1,853	2.0
—Oil country goods	4,241	4.8	3,612	4.3	2,458	2.5	2,647	2.7	2,405	2.6
—Line	2,047	2.3	1,793	2.1	1,569	1.6	1,571	1.6	1,330	1.5
—Mechanical	1,348	1.5	1,159	1.4	1,507	1.5	1,480	1.5	1,362	1.5
—Pressure	154	0.2	149	0.2	170	0.2	184	0.2	218	0.2
—Structural	598	0.7	569	0.7	541	0.5	423	0.4	290	0.3
—Stainless	39		41	0.1	46		40	0.1	32	0.1
Wire—Drawn	1,440	1.6	1,392	1.7	1,918	1.9	1,968	2.0	1,894	2.1
—Nails and staples	150	0.2	173	0.2	257	0.2	289	0.3	278	0.3
—Barbed and twisted	81	0.1	70	0.1	67	0.1	58	0.1	55	
—Woven wire fence	95	0.1	92	0.1	122	0.1	109	0.1	113	0.1
—Bale ties and baling wire	49	0.1	41		85	0.1	87	0.1	60	0.1

Table 11 *(continued)*

Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

Steel Products	1981 Tons	1981 %	1980 Tons	1980 %	1979 Tons	1979 %	1978 Tons	1978 %	1977 Tons	1977 %
Black plate	421	0.5	504	0.6	629	0.6	623	0.6	636	0.7
Tin plate	3,490	3.9	4,166	5.0	4,604	4.6	4,489	4.6	4,700	5.1
Tin free Steel	948	1.1	978	1.1	1,003	1.0	918	0.9	974	1.1
Tin mill products—All other	68	0.1	61	0.1	75	0.1	70	0.1	72	0.1
Sheets—Hot rolled	13,451	15.2	12,116	14.5	15,995	16.0	15,447	15.8	14,558	16.0
—Cold rolled	14,396	16.3	13,313	15.9	17,284	17.2	17,821	18.2	17,684	19.4
Sheets and strip—Galvanized—Hot dipped	5,375	6.1	4,787	5.7	5,810	5.8	5,889	6.0	5,293	5.8
—Electrolytic	548	0.6	457	0.5	531	0.5	541	0.6	364	0.4
—All other metallic coated	836	0.9	722	0.9	975	1.0	997	1.0	923	1.0
—Electrical	599	0.7	601	0.7	697	0.7	639	0.6	597	0.6
Strip—Hot rolled	660	0.7	669	0.8	984	1.0	1,027	1.0	1,082	1.2
—Cold rolled	1,060	1.2	930	1.1	1,230	1.2	1,248	1.3	1,186	1.3
Total Steel Mill Products	**88,450**	**100.0**	**83,853**	**100.0**	**100,262**	**100.0**	**97,935**	**100.0**	**91,147**	**100.0**
Carbon	76,554	86.6	73,358	87.5	87,879	87.6	86,187	88.0	81,268	89.2
Stainless and heat resisting	1,163	1.3	1,127	1.3	1,361	1.4	1,191	1.2	1,118	1.2
Alloy (other than stainless)	10,732	12.1	9,368	11.2	11,022	11.0	10,557	10.8	8,761	9.6
Total Steel Mill Product Shipment By Months*										
January	7,616		7,952		8,206		7,323		6,459	
February	7,375		7,690		7,996		7,539		6,690	
March	8,422		8,711		10,293		8,718		8,750	
April	8,108		7,296		7,438		8,055		7,981	
May	7,932		6,440		10,187		8,610		8,369	
June	8,148		5,848		8,977		8,787		8,811	
July	7,115		5,353		8,319		7,608		6,986	
August	7,020		5,745		8,475		8,293		7,737	
September	7,039		6,682		7,929		8,252		7,662	
October	6,723		7,458		8,355		8,599		7,400	
November	5,783		7,038		7,361		7,813		7,188	
December	5,666		7,591		6,743		8,196		7,020	
Total*	**88,450**		**83,853**		**100,262**		**97,935**		**91,147**	

*Totals include adjustments not shown in monthly figures

Table 12

Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

Market Classifications	1986		1985		1984		1983		1982	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Steel for converting and processing	5,635	8.0	5,484	7.5	5,136	7.0	4,403	6.5	3,222	5.2
Independent forgers (not elsewhere classified)	538	0.8	708	1.0	775	1.1	573	0.8	579	0.9
Industrial fasteners	427	0.6	386	0.5	455	0.6	440	0.7	404	0.7
Steel service centers & distributors	17,478	24.9	18,439	25.2	18,364	24.9	16,710	24.7	13,067	21.2
Construction, including maintenance	7,336	10.4	7,900	10.8	7,522	10.2	7,271	10.8	6,283	10.2
Contractors' products	3,278	4.7	3,330	4.6	2,631	3.6	2,703	4.0	2,287	3.7
Total	**10,614**	**15.1**	**11,230**	**15.4**	**10,153**	**13.8**	**9,974**	**14.8**	**8,570**	**13.9**
Automotive										
Vehicles, parts, etc.	11,627	16.5	12,689	17.3	12,571	17.1	12,052	17.8	9,111	14.8
Independent forgers	262	0.4	261	0.4	311	0.4	268	0.4	177	0.3
Total	**11,889**	**16.9**	**12,950**	**17.7**	**12,882**	**17.5**	**12,320**	**18.2**	**9,288**	**15.1**
Rail transportation										
Freight cars, pass. cars & locomotives	267	0.4	280	0.4	347	0.4	217	0.3	382	0.6
Rails and all other	531	0.7	781	1.0	1,091	1.5	720	1.1	638	1.1
Total	**798**	**1.1**	**1,061**	**1.4**	**1,438**	**1.9**	**937**	**1.4**	**1,020**	**1.7**
Shipbuilding and marine equipment	211	0.3	337	0.5	471	0.6	471	0.7	399	0.6
Aircraft and aerospace	39		39		37	0.1	21		30	
Oil and gas industry	1,023	1.5	2,044	2.8	2,003	2.7	1,296	1.9	2,745	4.5
Mining, quarrying and lumbering	275	0.4	298	0.4	298	0.4	262	0.4	254	0.4
Agricultural										
Agricultural machinery	373	0.6	442	0.7	480	0.6	417	0.6	425	0.7
All other	228	0.3	187	0.2	193	0.3	282	0.4	519	0.8
Total	**601**	**0.9**	**629**	**0.9**	**673**	**0.9**	**699**	**1.0**	**944**	**1.5**
Machinery, industrial equipment & tools	2,076	3.0	2,271	3.1	2,886	3.9	2,484	3.7	2,584	4.2
Electrical equipment	2,113	3.0	1,869	2.6	2,365	3.2	2,337	3.5	2,003	3.3
Appliances, utensils and cutlery	1,648	2.3	1,466	2.0	1,635	2.2	1,618	2.4	1,337	2.2
Other domestic and commercial equipment	1,173	1.7	1,215	1.7	1,339	1.8	1,363	2.0	1,247	2.0
Containers, packaging and shipping materials										
Cans and closures	3,020	4.3	3,044	4.2	3,268	4.4	3,443	5.1	3,480	5.7
Barrels, drums and shipping pails	519	0.7	465	0.6	507	0.7	535	0.8	536	0.9
All other	574	0.9	580	0.8	577	0.8	554	0.8	454	0.7
Total	**4,113**	**5.9**	**4,089**	**5.6**	**4,352**	**5.9**	**4,532**	**6.7**	**4,470**	**7.3**
Ordnance and other military	228	0.3	267	0.4	242	0.3	244	0.4	203	0.3
Export (reporting companies only)	495	0.7	494	0.7	428	0.6	544	0.8	832	1.4
Nonclassified shipments	8,885	12.6	7,767	10.6	7,807	10.6	6,355	9.4	8,369	13.6
Total Shipments	**70,263**	**100.0**	**73,043**	**100.0**	**73,739**	**100.0**	**67,583**	**100.0**	**61,567**	**100.0**

Table 12 *(continued)*

Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

Market Classifications	1981		1980		1979		1978		1977	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Steel for converting and processing	5,058	5.7	4,117	4.9	5,058	5.0	4,612	4.7	3,679	4.0
Independent forgers (not elsewhere classified)	1,035	1.2	933	1.1	1,254	1.3	1,192	1.2	998	1.1
Industrial fasteners	648	0.7	590	0.7	934	0.9	870	0.9	848	0.9
Steel service centers & distributors	17,637	19.9	16,172	19.3	18,246	18.2	17,333	17.7	15,346	16.8
Construction, including maintenance	8,446	9.5	8,742	10.4	9,978	10.0	9,612	9.8	7,553	8.3
Contractors' products	3,230	3.7	3,148	3.8	3,745	3.7	3,480	3.6	4,500	4.9
Subtotal construction and contractors' products	**11,676**	**13.2**	**11,890**	**14.2**	**13,723**	**13.7**	**13,092**	**13.4**	**12,053**	**13.2**
Automotive										
Vehicles, parts, etc.	12,808	14.5	11,855	14.2	18,099	18.0	20,651	21.1	20,882	22.9
Independent forgers	346	0.4	269	0.3	522	0.5	602	0.6	608	0.7
Total	**13,154**	**14.9**	**12,124**	**14.5**	**18,621**	**18.5**	**21,253**	**21.7**	**21,490**	**23.6**
Rail transportation										
Freight cars, pass. cars & locomotives	976	1.1	1,884	2.3	2,445	2.4	2,188	2.2	1,709	1.9
Rails and all other	1,186	1.3	1,271	1.5	1,666	1.7	1,361	1.4	1,529	1.7
Total	**2,162**	**2.5**	**3,155**	**3.8**	**4,111**	**4.1**	**3,549**	**3.6**	**3,238**	**3.6**
Shipbuilding and marine equipment	1,101	1.2	1,201	1.4	924	0.9	845	0.9	869	1.0
Aircraft and aerospace	37		53	0.1	60	0.1	60	0.1	63	0.1
Oil and gas industry	6,238	7.1	5,371	6.4	3,739	3.7	4,140	4.3	3,650	4.0
Mining, quarrying and lumbering	493	0.6	454	0.5	569	0.6	508	0.5	486	0.5
Agricultural										
Agricultural machinery	820	0.9	852	1.0	1,306	1.3	1,080	1.1	1,017	1.1
All other	409	0.5	388	0.5	665	0.7	725	0.7	631	0.7
Total	**1,229**	**1.4**	**1,240**	**1.5**	**1,971**	**2.0**	**1,805**	**1.8**	**1,648**	**1.8**
Machinery, industrial equipment & tools	4,624	5.2	4,543	5.4	5,996	6.0	5,992	6.1	5,566	6.1
Electrical equipment	2,600	2.9	2,441	2.9	2,819	2.8	2,811	2.9	2,639	2.9
Appliances, utensils and cutlery	1,775	2.0	1,725	2.1	2,140	2.1	2,094	2.1	2,129	2.3
Other domestic and commercial equipment	1,622	1.8	1,701	2.0	2,073	2.1	1,889	1.9	1,846	2.0
Containers, packaging and shipping materials										
Cans and closures	3,786	4.3	4,163	5.0	4,994	4.9	4,950	4.9	5,173	5.7
Barrels, drums and shipping pails	744	0.8	725	0.9	939	1.0	809	0.9	768	0.8
All other	762	0.9	663	0.7	839	0.9	836	0.9	773	0.9
Total	**5,292**	**6.0**	**5,551**	**6.6**	**6,772**	**6.8**	**6,595**	**6.7**	**6,714**	**7.4**
Ordnance and other military	166	0.2	177	0.2	204	0.2	207	0.2	193	0.2
Export (reporting companies only)	1,845	2.1	2,595	3.1	2,007	2.0	1,224	1.3	1,076	1.2
Nonclassified shipments	10,058	11.4	7,820	9.3	9,041	9.0	7,864	8.0	6,616	7.3
Total Shipments	**88,450**	**100.0**	**83,853**	**100.0**	**100,262**	**100.0**	**97,935**	**100.0**	**91,147**	**100.0**

Table 13

Shipments of Steel Mill Products by Market Classification—1986
All Grades

(Net Tons)

Products	Steel for Converting and Processing					Steel Service Centers and Distributors	Construction Including Maintenance	Contractors' Products
	Total Shipments	Less Shipments to Reporting Companies	Net Shipments	Independent Forgers (Not elsewhere classified)	Industrial Fasteners			
Ingots, blooms, billets, slabs	676,187	351,824	324,363	209,789	20,515	127,292	16,415	55,378
Skelp	4,903		4,903					
Wire rods	1,534,275	145,548	1,388,727	40	130,705	15,665	756,273	34,399
Structural shapes (3" & over)	195		195			843,607	1,983,516	4,099
Steel piling						55,254	237,316	
Plates	116,475	11,004	105,471	99	671	1,241,900	631,887	30,345
Rails						10,769	5,257	
Rail Accessories						11,352	413	
Wheels (rolled and forged)							1	
Axles								
Bars—Hot rolled (including light shapes)	882,211	565,762	316,449	326,690	131,479	975,294	363,106	523,002
—Reinforcing	305,927		305,927	186	2,752	211,300	1,707,244	69,338
—Cold finished	12,638	530	12,108	1,065	4,540	317,911	780	8,889
Tool steel	1,034	1,034						
Pipe and tubing—Standard	18,883	13,924	4,959			489,633	29,955	28,652
—Oil country goods	4,175	2,058	2,117			54,010	9	
—Line	111		111			173,689	5,891	238
—Mechanical	23,851	19,610	4,241		69	146,266	9,858	4,713
—Pressure	1,022	418	604			20,524	1,816	109
—Structural	159		159			85,996	41,687	174
—Stainless	2,249	1,123	1,126			10,996	2,079	68
Wire—Drawn	104,173	279	103,894		31,255	114,145	108,234	22,578
—Nails and staples	22		22			65,188	26,999	10
—Other merchant wire products						16,061	30	
Black plate	12,502	6	12,496			52,747	658	22,471
Tin plate	32,883		32,883			234,182	44	571
Tin free steel	2,664		2,664			38,143	(4)	
Tin mill products-All other						21,237		465
Sheets—Hot rolled	3,063,346	1,157,063	1,906,283		8,175	5,602,612	437,303	383,533
—Cold rolled	915,176	49,540	865,636		3,649	3,813,767	46,651	720,484
Sheets and strip—Galvanized	109,590	12,188	97,402		56,562	2,340,298	604,203	1,242,453
—All other metallic coated	8,665		8,665			234,096	298,907	84,629
—Electrical	10,019	9,776	243			27,462		716
Strip—Hot rolled	223,561	127,355	96,206	43	27,013	27,483	17,348	4,786
—Cold rolled	42,503	5,043	37,460		9,648	98,967	2,316	36,107
Total—All Grades	**8,109,399**	**2,474,085**	**5,635,314**	**537,912**	**427,033**	**17,477,846**	**7,336,192**	**3,278,207**
%			80	0.8	0.6	24.9	10.4	4.7

Table 13 *(continued)*

Shipments of Steel Mill Products by Market Classification—1986
All Grades

(Net tons)

Products	Automotive	Rail Transportation	Shipbuilding and Marine Equipment	Aircraft and Aerospace	Oil and Gas Industry	Mining, Quarrying and Lumbering	Agricultural	Machinery, Industrial Equipment and Tools
Ingots, blooms, billets, slabs	82,753	1,801	1,117	19,877	10,728	5	1,212	67,210
Skelp								
Wire rods	137,857	5,087	5,000	126	8,054	119	84,253	264,064
Structural shapes (3" & over)	7,754	20,685	19,518	259	2,270	187	6,892	20,003
Steel piling		1,757	29		31			
Plates	56,372	110,275	162,824	3,072	34,292	10,869	30,567	430,618
Rails		422,727				23		
Rail Accessories		37,834				1		
Wheels (rolled and forged)		49,774						
Axles		27,679				97		
Bars—Hot rolled (including light shapes)	1,252,084	69,213	4,743	8,395	71,712	174,513	89,205	350,046
—Reinforcing		6,924		3	6,763	51,016	923	7,809
—Cold finished	113,869	851	1,157	1,469	3,881	2,465	12,085	127,365
Tool steel								
Pipe and tubing—Standard	1,724	87			52,640	56	278	1,068
—Oil country goods					392,032			106
—Line					406,622			479
—Mechanical	134,427	541	20	1,330	16,559	1,041	11,235	201,680
—Pressure	36		174		328			15,964
—Structural	28	21			7,700		2,503	5,650
—Stainless	26		4	335	361			4,668
Wire—Drawn	24,654	210	1,281	16	4,899	8,318	2,854	42,790
—Nails and staples							3	47
—Other merchant wire products		7					154	7
Black plate	3,849							1,942
Tin plate	48,641	9						4,837
Tin free steel	615							41
Tin mill products-All other	42,045							711
Sheets—Hot rolled	2,236,679	35,723	4,675	184	1,820	21,487	101,295	153,198
—Cold rolled	3,896,922	1,600	10,295	388	274	3,029	15,556	171,120
Sheets and strip—Galvanized	2,951,776	4,018	125	47	280	1,599	204,226	22,938
—All other metallic coated	430,223				758		3,440	7,388
—Electrical	2,055	176					5	17,146
Strip—Hot rolled	273,673	873		2,243	1,408	490	33,125	96,109
—Cold rolled	190,943	224	229	1,734	34	31	1,152	61,398
Total—All Grades	**11,889,005**	**798,096**	**211,191**	**39,478**	**1,023,446**	**275,350**	**600,963**	**2,076,402**
%	16.9	0.1	0.3		1.5	0.4	0.9	3.0

Table 13 *(continued)*

Shipments of Steel Mill Products by Market Classification—1985

All Grades

(Net tons)

Products	Electrical Equipment	Appliances, Utensils, and Cutlery	Other Domestic and Commercial Equipment	Containers, Packaging and Shipping Materials	Ordnance and Other Military	Export (Reporting Companies Only)	Non-classified Shipments	Total	%
Ingots, blooms, billets, slabs	104	2,082		8,799	94,336	28,747	412,726	1,485,249	2.1
Skelp			94					4,997	
Wire rods	26,259	5,190	136,951	652		987	463,419	3,463,827	4.9
Structural shapes (3" & over)	961		871	49		10,620	1,311,427	4,232,913	6.0
Steel piling						332		294,719	0.4
Plates	58,378	7,370	10,122	4,924	56,043	30,786	547,921	3,564,806	5.1
Rails						1,563	20,669	461,008	0.6
Rail Accessories						1,162	50,309	101,071	0.1
Wheels (rolled and forged)						352		50,127	0.1
Axles						215		27,991	
Bars—Hot rolled (including light shapes)	25,947	30,713	36,965	758	18,698	39,094	1,750,998	6,559,108	9.3
—Reinforcing						6,719	1,921,918	4,298,822	6.1
—Cold finished	5,750	12,262	8,800	63	8,134	3,795	610,198	1,257,437	1.8
Tool steel						1,290	54,485	55,775	0.1
Pipe and tubing—Standard	60,253	96	4,717	450	863	3,899	30,386	709,716	1.0
—Oil country goods	47					5,523	28,877	482,721	0.7
—Line	143		151			1,521	15,217	604,062	0.9
—Mechanical	4,324	8,432	15,259		4,445	17,398	166,601	748,439	1.1
—Pressure	156			2,281	3,564	5,390	20,766	71,712	0.1
—Structural	31,582		114				1,954	177,568	0.3
—Stainless	287		18	5		505	21,762	42,240	0.1
Wire—Drawn	6,445	15,083	74,184	9,818	1,797	1,469	228,335	802,259	1.1
—Nails and staples						25	112,602	204,896	0.3
—Other merchant wire products						1	56,912	73,172	0.1
Black plate	4,673	2,935	23,751	78,977		11,775		216,274	0.3
Tin plate	3,664	10,053	11,193	2,135,290	416	90,542	8,867	2,581,192	3.7
Tin free steel	8,147	70	5,101	853,134		26,910	510	935,331	1.3
Tin mill products—all other	153	1,878	575	2,064		18		69,146	0.1
Sheets—Hot rolled	341,988	77,844	113,418	229,333	2,247	77,110	432,032	12,166,939	17.3
—Cold rolled	1,075,100	1,189,527	590,830	608,893	15,569	33,988	186,878	13,250,156	18.9
Sheets and strip—Galvanized	100,309	203,082	90,815	24,425	529	23,006	154,245	8,122,338	11.6
—All other metallic coated	712	24,156	12,001	3,104	256	34,862	33,387	1,176,584	1.7
—Electrical	330,374	18,296	2,142			16,604	359	415,578	0.6
Strip—Hot rolled	4,980	3,561	8,071	3,684	689	5,596	27,663	635,044	0.9
—Cold rolled	22,317	35,707	27,303	146,154	20,707	13,473	213,658	919,562	1.3
Total—All Grades	**2,113,053**	**1,648,337**	**1,173,446**	**4,112,857**	**228,293**	**495,277**	**8,885,081**	**70,262,779**	**100.0**
%	3.0	2.3	1.7	5.9	0.3	0.7	12.6	100.0	

EXPORTS AND IMPORTS

The following tables, compiled from Department of Commerce report on Foreign Commerce and Navigation of the United States, give the tonnage of iron and steel products exported and imported during the period 1981-1985. Exports and imports of iron and steel products not stated by weight in the reports are necessarily omitted.

Table 14

Exports of Iron and Steel Products

(Net tons)

Products	1986	1985	1984	1983	1982
Steel Mill Products					
Ingots, blooms, billets, slabs, etc	58,885	89,708	73,536	102,754	362,293
Wire rods	5,876	4,740	8,646	6,137	24,961
Structural shapes (3" & over)	31,697	41,633	29,048	47,019	56,398
Sheet piling	5,729	628	3,355	2,097	5,620
Plates	69,565	82,988	88,184	101,982	121,930
Rails—Standard	1,660	1,888	3,126	4,333	12,637
—Other	2,402	4,682	8,015	4,884	16,286
Rail joints and tie plates	5,385	4,367	4,084	9,297	7,563
Wheels and axles	3,685	2,493	3,853	1,557	2,706
Bars—Hot rolled	45,253	62,719	82,972	89,677	79,385
Bars shapes under 3"	6,995	7,139	11,231	21,796	9,576
Concrete reinforcing bars	14,197	7,409	9,889	34,524	114,739
Cold finished bars	12,636	19,735	27,177	20,487	16,502
Tool steel	2,144	2,094	2,326	3,568	2,406
Line Pipe	14,375	12,737	17,921	24,551	48,003
Standard pipe	35,619	22,614	23,229	50,068	73,100
Oil country goods	10,531	62,211	53,067	60,835	153,459
Tubing—Pressure	25,461	6,158	5,311	10,582	20,576
—Mechanical	4,492	38,599	45,177	41,485	34,273
—Structural	3,040	4,748	6,628	5,646	3,825
Stainless pipe & tubing	25,916	6,009	7,648	(incl. in applicable products)	
Other pipe and tubing	1,616	46,243	48,445	64,785	97,390
Wire--Drawn	26,081	18,758	19,441	18,739	22,863
—Barbed, Iron or Steel	5,862	834	1,366	1,601	3,399
—Nails and staples	2,636	5,445	7,161	6,919	7,091
Black plate	70,488	32,754	38,782	60,925	71,890
Tin plate	206,286	130,027	121,472	170,060	226,471
Tin free	2,699	1,123	1,766	(incl. in galv. & ctd sheets & strip)	
Sheets—Hot rolled	75,906	56,696	51,581	42,543	62,188
—Cold rolled	28,094	32,758	38,734	39,990	38,352
Sheets & strip—Galv	27,365	29,261	31,741	96,712	81,052
—Coated	52,457	42,761	55,287		
—Electrical	10,122	14,132	12,922	10,674	13,229
Strip—Hot rolled	13,683	12,482	11,563	16,430	27,491
—Cold rolled	20,319	23,401	25,729	25,920	24,613
Total Steel Mill Products	**929,156**	**931,976**	**980,414**	**1,198,577**	**1,842,267**
Carbon	687,029	648,063	704,290	842,044	1,250,960
Alloy	193,723	228,288	235,235	307,097	538,717
Stainless	48,404	55,625	40,888	49,436	52,590

Table 14 *(continued)*

Exports of Iron and Steel Products

(Net tons)

Products	1986	1985	1984	1983	1982
Other Steel Products:					
Plates—Fabricated	3,088	5,633	3,573	5,621	6,849
Structural shapes—Fabricated	34,098	46,770	86,853	65,801	119,300
Sashes and frames	4,242	6,815	8,986	9,198	10,136
Rails-used	77,725	109,560	58,212	34,026	52,796
Railway track material	2,812	2,843	2,550	3,214	6,606
Bolts, nuts	44,186	58,944	86,897	72,906	70,594
Architectural & ornamental work, nec	2,552	1,765	2,207	3,642	5,574
Wire cable, rope, strand & cordage	7,465	7,149	6,478	10,329	13,733
Fabricated wire products	11,347	10,119	7,100	10,093	11,301
Wire springs	11,069	16,135	17,246	14,564	13,675
Welded wire mesh	2,627	2,415	3,079	5,102	7,890
Sheets—Fabricated	8,046	8,044	7,798	16,370	16,361
Cast steel rolls	1,243	1,471	1,438	977	3,205
Forgings	46,649	46,269	41,739	33,048	46,139
Chains and parts	6,846	8,129	7,760	6,380	11,918
Pipe & tube fittings	21,528	28,956	36,182	47,796	57,612
Total Other Steel Products	**285,522**	**361,016**	**378,098**	**339,067**	**453,689**
Total Steel Products	**1,214,678**	**1,292,991**	**1,358,512**	**1,537,644**	**2,295,956**
Iron Products and Ferroalloys:					
Cast iron pressure pipe	16,603	8,600	12,611	18,447	50,967
Cast iron soil pipe	39,176	22,099	21,775	40,819	37,962
Cast iron fittings not malleable	5,853	6,808	10,857	18,042	15,283
Cast iron fittings malleable	3,168	3,500	4,273	4,562	7,589
Iron castings	40,473	94,419	122,374	58,345	69,545
Pig iron	47,051	31,614	56,674	6,364	54,333
Sponge iron, iron or steel powders	11,529	10,773	14,791	14,243	13,939
Ferroalloys	72,722	98,417	124,724	66,272	42,411
Total Iron Products & Ferroalloys	**236,576**	**276,231**	**368,081**	**227,094**	**292,029**
Grand Total	**1,451,254**	**1,569,222**	**1,726,592**	**1,764,738**	**2,587,985**
Iron and steel scrap	11,703,677	9,948,395	9,498,276	7,519,924	6,803,764

Table 15

Exports of Iron and Steel Products

(Net tons)

Products	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc	58,885	89,708	73,536	102,754	362,293	540,598	912,309	357,965	231,098	248,422
Wire rods	5,876	4,740	8,646	6,137	24,961	101,774	212,347	26,903	38,863	83,934
Structural shapes and pilings	37,426	42,261	32,403	49,116	62,018	138,988	153,754	145,884	127,275	98,202
Plates	69,565	82,988	88,184	101,982	121,930	199,534	207,840	207,860	172,068	60,660
Rails and accessories	13,132	13,430	19,078	20,071	39,192	85,712	134,529	40,646	76,590	89,998
Bars and tool steel	81,225	99,096	133,595	170,052	222,608	337,463	434,068	260,244	282,309	229,991
Pipe and tubing	121,050	199,319	207,426	257,952	430,626	472,436	470,150	723,415	561,998	407,209
Wire and wire products	34,579	25,037	27,968	27,259	33,353	49,302	54,239	45,142	62,411	64,320
Tin mill products	279,473	163,904	162,020	249,556	312,017	470,810	886,482	565,953	453,463	374,500
Sheets and strip	227,946	211,491	227,557	213,698	233,269	507,176	634,965	438,923	415,613	345,865
Total Steel Mill Products	**929,156**	**931,976**	**980,414**	**1,198,577**	**1,842,267**	**2,903,793**	**4,100,683**	**2,817,935**	**2,421,688**	**2,003,101**
Other Steel Products	285,522	361,016	378,098	339,067	453,689	568,486	561,545	503,699	512,619	575,581
Total Steel Products	**1,214,678**	**1,292,991**	**1,358,512**	**1,537,644**	**2,295,956**	**3,472,279**	**4,662,228**	**3,321,634**	**2,934,307**	**2,578,682**
Iron Products and Ferroalloys	236,576	276,231	368,081	227,094	292,029	302,446	445,110	440,684	564,977	639,318
Grand Total	**1,451,254**	**1,569,222**	**1,726,592**	**1,764,738**	**2,587,985**	**3,774,725**	**5,107,338**	**3,762,318**	**3,499,284**	**3,218,000**

Table 17

Exports of Steel Mill Products

(Net tons)

Months	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977
January	86,828	65,997	86,253	94,513	173,403	255,736	197,768	192,619	160,338	162,280
February	72,764	73,275	73,074	92,122	153,543	212,903	295,675	164,693	207,583	204,787
March	73,830	76,528	79,994	88,940	197,296	260,094	276,266	216,844	191,463	201,535
April	72,371	71,252	72,687	105,754	147,572	291,048	321,393	226,446	204,708	232,818
May	61,209	84,930	90,031	100,931	194,314	259,418	337,821	236,756	255,466	178,011
June	70,194	83,233	85,895	100,182	180,094	279,433	417,941	255,187	270,996	151,195
July	67,643	81,333	89,790	108,250	145,546	217,564	398,417	233,706	174,335	135,753
August	85,591	100,855	94,076	100,123	152,434	194,438	448,915	249,507	208,456	142,849
September	102,950	63,385	76,358	99,000	158,258	228,080	400,518	244,488	174,305	170,806
October	71,825	77,090	88,558	109,868	133,356	233,084	366,179	281,453	217,741	125,386
November	87,180	73,202	61,026	114,210	105,988	244,423	315,875	226,700	194,487	148,396
December	76,770	80,894	82,645	84,459	97,370	227,490	323,827	289,312	248,453	149,161
Total*	**929,156**	**931,976**	**980,414**	**1,198,577**	**1,842,267**	**2,903,793**	**4,100,683**	**2,817,935**	**2,421,688**	**2,003,101**

*Totals include adjustments not shown in monthly figures

Table 17

Exports of Iron and Steel Products by Countries of Destination—1986

(Net tons)

Products	Grand Total	Canada	Mexico	LATIN AMERICA Vene-zuela	Brazil	Argen-tina	Total Latin Am.
Steel Mill Products							
Ingots, bloom, billets, slabs, etc	58,885	4,366	2,446	22	16,123	—	27,584
Wire rods	5,876	1,330	1,933	95	37	59	2,644
Structural shapes (3" and over)	31,697	21,944	2,619	—	205	80	5,724
Sheet piling	5,729	94	—	—	—	—	153
Plates	69,565	23,838	14,344	383	46	25	18,758
Rails—Standard	1,660	274	76	—	—	25	1,068
—Iron or steel (NEC)	2,402	634	944	91	—	73	1,383
Rail joints and tie plates	5,385	3,603	609	69	—	1	967
Wheels and axles	3,685	533	431	265	40	20	1,029
Bars—Hot rolled	45,253	17,926	13,492	686	42	109	15,553
Bar shapes under 3"	6,995	1,433	2,208	67	—	—	4,060
Concrete reinforcing bars	14,197	574	604	—	—	—	4,463
Cold finished bars	12,636	5,951	2,129	24	156	3	3,614
Tool steel	2,144	728	156	41	33	—	677
Standard pipe	14,375	3,097	2,993	139	—	—	7,112
Oil country goods	35,619	5,882	3,252	3,112	524	270	15,996
Line pipe	10,531	1,113	2,204	970	—	—	6,785
Mechanical tubing	25,461	15,278	7,420	50	—	—	7,484
Pressure tubing	4,492	2,581	670	364	10	6	1,114
Stainless pipe and tubing	3,040	1,038	431	22	67	25	1,180
Pipe and tubing nonclassified	25,916	7,136	3,911	286	48	56	9,094
Structural pipe and tubing	1,616	93	325	2	—	9	586
Wire drawn	26,081	8,241	3,220	145	324	36	5,519
Wire—Nails and staples	5,862	2,121	312	45	5	9	1,459
—Barbed: iron or steel	2,636	226	66	—	—	—	761
Black plate	70,488	931	25,376	—	—	780	28,254
Tin plate	206,286	1,847	1,582	102	1,277	5,877	17,378
Tin free steel	2,699	41	22	43	—	—	227
Sheets—Hot rolled	75,906	10,018	18,660	178	14	117	20,412
—Cold rolled	28,094	10,311	9,474	237	80	491	10,990
Sheets & strip galvanized	27,365	19,562	3,859	11	31	—	5,039
Coated sheets	52,457	24,213	2,109	1	26	822	4,613
Electrical sheets & strip	10,122	3,329	3,785	744	264	264	5,091
Strip—Hot rolled	13,683	2,166	8,215	280	3	34	8,973
—Cold rolled	20,319	13,687	2,241	14	87	25	2,930
Total Steel Mill Products	**929,156**	**216,141**	**142,118**	**8,484**	**19,431**	**9,224**	**248,672**
Carbon	687,029	153,157	87,311	4,992	17,871	8,283	162,081
Alloy	193,723	54,875	38,904	3,066	1,304	508	66,499
Stainless	48,404	8,108	15,902	426	256	433	20,092

Country detail may not add to regional total because of ommissions of some countries

Table 17 *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1986

(Net tons)

Products	EUROPE									
	EUROPEAN ECONOMIC COMMUNITY									
	United Kingdom	Netherlands	Belgium-Luxembourg	France	Fed. Rep. Germany	Italy	Spain	Total E.E.C.*	Sweden	Total Other Europe
Steel Mill Products										
Ingots, bloom, billets, slabs, etc.	186	97	227	43	1,013	9,248	—	10,871	130	3,121
Wire rods	222	93	154	27	79	12	9	646	3	7
Structural shapes (3" and over)	895	—	—	11	2	41	7	977	24	145
Sheet piling	—	—	—	—	43	—	—	43	1	1
Plates	2,549	6	6	32	2,102	1,903	204	8,027	153	1,456
Rails—Standard	—	—	—	—	—	263	—	263	—	—
—Iron or steel (NEC)	—	6	1	4	19	—	—	31	—	—
Rail joints and tie plates	—	—	1	1	—	9	—	10	1	67
Wheels and axles	3	—	5	504	111	1	9	735	—	7
Bars—Hot rolled	322	193	296	105	138	107	1	1,020	1,535	1,691
Bar shapes under 3"	60	68	58	31	3	32	6	288	—	18
Concrete reinforcing bars	—	—	—	90	1	—	7	98	—	79
Cold finished bars	225	211	81	54	271	156	19	1,226	221	913
Tool steel	54	8	13	80	170	26	—	398	3	10
Standard pipe	291	1	—	24	103	3	17	434	2	4
Oil country goods	1,026	401	—	27	30	2,562	11	4,065	350	859
Line pipe	319	—	—	10	146	3	—	1,508	—	14
Mechanical tubing	65	366	19	6	4	4	—	769	27	43
Pressure tubing	54	17	2	10	3	28	1	134	—	107
Stainless pipe & tubing	113	9	11	17	30	29	6	291	16	44
Pipe and tubing nonclassified	249	1,172	50	80	105	841	509	2,943	115	243
Structural pipe and tubing	8	15	—	—	—	3	4	27	—	—
Wire drawn	251	87	216	83	586	53	83	1,451	58	1,219
Wire—Nails and staples	284	87	183	140	114	26	7	1,077	72	134
—Barbed, quick or steel	216	429	5	—	13	16	—	700	—	3
Black plate	—	—	—	20	17	1,153	42	1,604	—	—
Tin plate	283	225	—	—	19	28,646	1,812	31,581	3	97
Tin free steel	1,704	—	—	21	80	255	—	2,031	—	—
Sheets—Hot rolled	7,228	50	195	26	115	5,904	95	17,917	579	840
—Cold rolled	401	13	—	58	540	75	23	1,114	12	33
Sheets & strip galvanized	1	80	66	11	—	6	53	217	—	144
Coated sheets	110	67	3,678	174	1,029	1,099	1,944	11,125	54	172
Electrical sheet & strip	5	6	—	19	547	4	25	612	—	3
Strip—Hot rolled	149	19	31	4	30	17	—	499	1	31
—Cold rolled	116	78	7	61	645	299	14	1,256	69	406
Total Steel Mill Products	**17,924**	**3,789**	**6,117**	**2,055**	**8,466**	**55,984**	**4,828**	**105,988**	**3,547**	**11,935**
Carbon	13,543	2,733	5,271	1,471	6,957	50,356	4,499	89,668	1,854	4,459
Alloy	1,909	770	538	352	1,315	456	286	13,156	1,162	6,607
Stainless	902	286	148	114	1,099	538	43	3,162	531	869

*Includes totals for Ireland, Denmark, Greece, & Portugal.

Table 17 *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1986

(Net tons)

Products	ASIA					OCEANIA			AFRICA	
	Hong Kong	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Total Oceania	Egypt	Republic of South Africa	Total Africa
Steel Mill Products										
Ingots, blooms, billets, slabs, etc	80	6,560	4,441	146	12,720	21	23	180	12	201
Wire rods	11	17	631	30	1,100	16	19	111	5	130
Structural shapes 15" and over	31	503	—	158	2,522	14	40	14		346
Sheet piling	—	—	—	—	—	16	16			5,422
Plates	430	4,178	154	430	16,035	84	254	141	106	1,198
Rails—Standard			—	5	46	4	4			5
Iron or steel (lt.C)	—	37	60	2	344	—	—		6	11
Rail joints and tie plates	—	—	1	1	15	2	2			699
Wheels and axles	80	1	1	109	797	16	16			567
Bars—Hot rolled	90	1,479	213	1,001	7,801	325	330	17	80	933
Bar shapes under 15"	4	165	15	14	515	552	589	6		92
Concrete reinforcing bars	—	—	40	4	307	—	16	8,605		8,657
Cold finished bars	78	36	107	83	751	4	59	37	11	112
Tool steel	1	1	2	1	243	10	41		41	46
Standard pipe	6	23	43	36	3,101	1,161	157	69	111	469
Oil country goods	9	3	105	104	1,788	82	163	1,110		6,866
Line pipe	—	17	8	16	743	8	60	3		309
Mechanical tubing	—	26	—	9	282	1,566	1,586		13	15
Pressure tubing	—	24	43	33	431	178	42	11	3	84
Stainless pipe and tubing	1	20	10	63	311	3	12		3	164
Pipe and tubing, nonclassified	35	225	45	141	5,323	83	160	101	31	1,016
Structural pipe and tubing	—	162	11	—	767	—	6	14	—	139
Wire drawn	124	562	1,442	18	9,285	1,163	165	13	13	201
Wire—Nails and staples	126	79	41	135	687	138	241	—	31	143
Barbed, rolled or steel	1	1,667	17	8	839	24	27	—	47	80
Black plate	1,903	—	6,350	1,750	39,332	73	79			289
Tin plate	34,108	961	17,909	49	136,790	18	28	18,291		18,565
Tin free steel	111	—	—	—	399	—	—			—
Sheets—Hot rolled	116	109	940	1,393	26,610	10	28	4	3	82
Cold rolled	191	113	124	23	5,562	17	60	11		26
Sheets & strip, galvanized	—	—	11	17	2,319	5	11	8		72
Coated sheets	4,135	139	1,362	923	11,844	83	389	1	1	101
Electrical sheets & strip	—	14	114	70	517	—	—	11		569
Strip—Hot rolled	14	7	46	321	1,948	16	17	1	11	50
Cold rolled	5	1	247	126	1,870	139	151		12	16
Total Steel Mill Products	49,557	15,758	51,060	31,925	293,942	4,071	4,606	30,088	802	47,672
Carbon	46,230	14,111	47,104	31,932	234,322	1,709	2,050	28,301	132	41,292
Alloy	2,327	1,134	3,956	1,414	43,915	2,311	2,590	1,749	671	6,079
Stainless	801	513	1,000	579	15,706	51	166	38	91	301

Table 17A

Exports of Iron and Steel Products by Countries of Destination—1986

(Net tons)

Products	Grand Total	Canada	Mexico	LATIN AMERICA Vene-zuela	Brazil	Argen-tina	Total Latin Am
Other Steel Products							
[illegible]	3,088	[illegible]	[illegible]	[illegible]	[illegible]		851
[illegible]	34,098	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17,557
[illegible]	4,242	[illegible]	[illegible]				1,326
[illegible]	77,725	[illegible]	[illegible]	[illegible]			77,507
[illegible]	2,812	[illegible]	[illegible]	[illegible]			1,661
[illegible]	44,186	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3,089
[illegible]	2,552	[illegible]	[illegible]				1,775
[illegible]	7,465	[illegible]	[illegible]	[illegible]	[illegible]		2,760
[illegible]	11,347	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6,509
[illegible]	11,069	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,255
[illegible]	2,627	[illegible]	[illegible]	[illegible]			963
[illegible]	8,046	[illegible]	[illegible]		[illegible]	[illegible]	2,062
[illegible]	1,243	[illegible]	[illegible]				120
[illegible]	46,649	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3,962
[illegible]	6,846	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,282
[illegible]	21,528	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3,742
Total Other Steel Products	285,522	101,734	97,416	1,839	366	371	126,422
Total Steel Products	1,214,678	317,875	239,534	10,323	19,797	9,595	375,094
Iron Products and Ferroalloys							
[illegible]	16,603	[illegible]	[illegible]		[illegible]		3,202
[illegible]	39,176	[illegible]	[illegible]	[illegible]			5,350
[illegible]	5,853	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	920
[illegible]	3,168	[illegible]	[illegible]	[illegible]			718
[illegible]	40,473	[illegible]	[illegible]	[illegible]	[illegible]		302
[illegible]	47,051	[illegible]	[illegible]	[illegible]	[illegible]		665
[illegible]	11,529	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4,342
[illegible]	72,722	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5,698
Total Iron Products and Ferroalloys	236,576	76,348	7,925	1,559	2,183	1,122	21,197
Grand Total	1,451,254	394,223	247,459	11,882	21,980	10,717	396,291
[illegible]	11,703,677	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,305,399

Table 17A *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1986

(Net tons)

Products	EUROPE									
	EUROPEAN ECONOMIC COMMUNITY									
	United Kingdom	Nether-lands	Belgium-Luxembourg	France	Fed. Rep Germany	Italy	Spain	Total E.E.C.*	Sweden	Total Other Europe
Other Steel Products										
								53		5
								2,154		571
								589		85
								—		—
								39		67
								2,075		268
								57		96
								437		156
								1,902		170
								266		23
								89		10
								502		28
								59		—
								2,595		96
								538		75
								1,578		349
Total Other Steel Products	3,870	1,254	1,301	1,095	3,881	613	323	12,931	460	1,959
Total Steel Products	21,794	5,043	7,418	3,150	12,327	56,597	5,151	118,919	4,007	13,894
Iron Products and Ferroalloys										
								1,888		24
								5		27
								118		33
								42		13
								98		3
								31,593		1,058
								1,511		277
								41,749		317
Total Iron Products and Ferroalloys	2,275	445	21,916	4,795	17,467	23,989	1,052	77,004	430	1,751
Grand Total	24,069	5,488	29,334	7,945	29,790	85,586	6,203	195,923	4,437	15,645
								1,225,785		1,441,506

Table 17A *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1986

(Net tons)

Products	ASIA					OCEANIA		AFRICA		
	Hong Kong	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Total Oceania	Egypt	Republic of South Africa	Total Africa
Other Steel Products										
					555	1	4			55
					5.443	1	161			2.849
					1.332		46			113
					—		—			—
					249		2			3
					824		295			407
					344		3			85
					1.475		32			115
					502		80			125
					220		63			9
					576		92			223
					2.444		72			228
					46		—			9
					1.115		16.244			18
					573		139			31
					3.788		380			1.106
Total Other Steel Products	773	1.668	1.000	3.076	19.487	1.108	17.612	2.525	397	5.376
Total Steel Products	50.330	17.626	52.680	35.091	313.429	5.179	22.418	32.613	1.199	53.048
Iron Products and Ferroalloys										
					10.066		1			411
					33.242		3			120
					2.894		127			258
					353		16			28
					117		35			22
					6.311		—			—
					517		213			84
					4.219		1.070			167
Total Iron Products and Ferroalloys	94	6.128	395	3.587	57.720	1.422	1.465	519	90	1.092
Grand Total	50.424	23.754	52.455	38.588	371.149	6.601	23.883	33.132	1.289	54.140
					7.351.134		37			14.368

Table 18

Imports of Iron and Steel Products

(Net tons)

Products	1986	1985	1984	1983	1982
Steel Mill Products:					
Ingots, blooms, slabs, and billets, etc.	2,084,096	2,440,368	1,515,837	822,483	716,588
Wire rods	1,357,875	1,479,176	1,589,788	1,185,291	941,390
Structural shapes (plain 3" & over)	1,748,604	1,978,711	2,046,630	1,444,721	1,483,481
Steel piling	107,013	139,807	108,995	113,554	114,859
Plates	1,106,904	1,377,921	1,538,495	1,103,199	1,619,527
Rails and track accessories	266,084	358,441	350,299	152,853	320,341
Wheels and axles	9,626	23,604	23,591	6,500	19,931
Concrete reinforcing bars	454,735	411,450	434,147	208,303	51,676
Bar shapes under 3"	166,369	140,318	174,788	88,288	59,707
Bars—Hot rolled	582,580	645,631	750,042	457,094	463,362
—Cold finished	224,696	314,865	328,419	191,605	218,306
Tool steel	44,749	37,142	32,054	30,423	†
Standard pipe	697,034	977,539	1,068,753	971,410	705,517
Oil country goods	616,743	1,497,972	2,206,595	564,769	2,179,862
Line pipe	817,861	1,042,356	982,669	494,424	1,122,408
Mechanical tubing	237,247	328,251	283,248	40,124	49,424
Pressure tubing	23,981	43,985	51,653	48,459	48,594
Stainless pipe & tubing	35,653	33,876	32,186	19,159	†
Structural pipe & tubing	479,768	502,112	320,691	186,621	†
Other pipe and tubing	28,524	37,577	475,918	537,095	1,144,143
Wire drawn	594,433	623,076	678,367	458,632	334,201
Bale ties & baling wire	696	885	2,986	448	129
Galvanized wire fencing	11,509	14,099	11,307	10,142	8,448
Wire nails	393,231	402,425	458,326	374,038	264,365
Barbed wire	22,157	15,336	27,729	28,927	18,162
Black plate	205,937	241,375	278,003	170,420	119,507
Tin plate	359,658	398,564	355,777	290,535	216,243
Tin free steel	110,569	145,606	104,001	62,170	††††
Terne plate	††	††	††	††	2,153
Sheets—Hot rolled	2,395,926	2,785,583	3,033,150	2,316,786	1,355,027
—Cold rolled	2,692,824	2,701,645	3,594,729	2,417,195	1,706,699
—Galvanized†††	2,321,108	2,465,419	2,729,584	1,824,163	1,227,875
All other metalic coated	209,730	204,250	224,232	286,295	(Incl. in Galv.)
Electrical sheets & strip	81,703	118,834	89,324	46,595	†††††
Strip—Hot rolled	43,557	62,154	79,591	32,531	21,653
—Cold rolled	159,135	265,296	181,313	84,644	49,207
—Hot and cold rolled—Alloy	†	†	†	†	22,361
Sheets—Other—Electric coated	†	†	†	†	57,388
Total Steel Mill Products	**20,692,316**	**24,255,651**	**26,163,218**	**17,069,895**	**16,662,532**
Carbon	19,542,052	22,863,841	24,913,727	16,343,643	15,376,328
Alloy	855,078	1,120,731	986,938	535,928	1,083,683
Stainless	295,186	271,079	262,554	190,324	202,521

†included in other individual product classifications.
††included in all other metalic coated.
†††includes all other metalic ctd. prior to 1983.
††††included in sheets other elec. ctd.
†††††included in sheets HR, strip cr.

Table 18 *(continued)*

Imports of Iron and Steel Products

(Net tons)

Products	1986	1985	1984	1983	1982
Other Steel Products:					
Structural shapes, fabricated	424,966	354,011	278,310	203,312	144,959
Shapes—Cold formed	2,178	1,951	1,770	1,552	615
Sashes and frames	4,394	3,085	2,785	1,432	997
Fence or sign posts	4,930	8,731	12,317	5,909	2,805
Wire—Nonmetalic coated	1,451	1,479	1,034	747	528
Wire rope	129,449	156,473	147,820	106,594	108,593
Wire strand	177,225	176,376	184,704	163,228	172,803
Welded wire fabric	51,699	40,276	23,167	17,755	19,933
Other nails and staples	45,437	41,553	44,554	38,117	23,530
Bale ties, made from strip	615	743	675	643	1,196
Bolts, nuts, and rivets	638,325	626,799	674,880	443,142	421,661
Grinding balls	4,134	3,559	10,804	4,990	8,699
Blanks, nonrectangular flat rolled	47,822	36,156	13,085	5,536	4,016
Conduit	22,871	21,258	3,915	3,169	1,656
Pipe and tube fittings	106,848	129,331	110,370	72,657	113,186
Total Other Steel Products	**1,662,344**	**1,601,783**	**1,510,189**	**1,068,782**	**1,025,177**
Total Steel Products	**22,354,660**	**25,857,434**	**27,673,407**	**18,138,677**	**17,687,709**
Iron Products and Ferroalloys:					
Bar iron, iron slabs and blooms, etc	127	231	117	150	73
Cast iron soil pipe and fittings	5,297	4,164	1,729	439	514
Other cast iron pipe and fittings	16,634	38,663	14,887	9,541	8,745
Malleable cast iron pipe fittings	20,965	24,293	26,276	19,153	18,718
Castings and forgings	200,631	209,302	176,234	106,874	108,163
Pig iron	294,967	338,260	702,461	242,142	321,699
Sponge iron	97,585	103,534	175,328	135,321	50,471
Ferromanganese (manganese content)	388,093	361,884	320,790	266,327	379,167
Ferrosilicon (silicon content)	218,576	152,436	96,302	106,666	53,130
Ferrochromium (chromium content)	387,867	331,013	242,723	162,998	84,777
Other ferroalloys	252,399	211,327	117,820	113,096	56,836
Total Iron Products and Ferroalloys	**1,883,140**	**1,775,108**	**1,874,666**	**1,162,707**	**1,082,293**
Grand Total	**24,237,800**	**27,632,542**	**29,548,073**	**19,301,384**	**18,770,002**
Iron and Steel Scrap	723,562	611,358	577,251	640,770	474,190

Table 19

Imports of Iron and Steel Products

(Net tons)

Products	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977
Steel Mill Products										
Ingots, blooms, billets, slabs, etc.	2,084,096	2,440,368	1,515,837	822,483	716,588	790,062	155,343	344,693	413,899	297,711
Wire rods	1,357,875	1,479,176	1,589,788	1,185,291	941,390	888,442	829,259	985,414	1,326,580	1,341,575
Structural shapes and piling	1,855,617	2,118,518	2,155,625	1,558,275	1,598,340	2,075,508	1,828,966	1,984,782	1,926,967	1,817,187
Plates	1,106,904	1,377,921	1,538,495	1,103,199	1,619,527	2,447,688	2,059,713	1,819,812	2,924,989	2,116,459
Rails and accessories	275,710	382,045	373,890	159,353	340,272	318,569	414,076	313,223	285,885	207,191
Bars and tool steel	1,473,129	1,549,406	1,719,450	975,713	793,051	986,081	859,989	1,127,414	1,337,014	1,363,907
Pipe and tubing	2,936,811	4,463,668	5,421,713	2,862,061	5,249,948	6,568,556	3,776,535	2,920,019	3,045,910	2,473,740
Wire and wire products	1,022,026	1,055,821	1,178,715	872,187	625,303	723,975	714,874	827,257	1,074,781	977,234
Tin mill products	676,164	785,545	737,781	523,125	337,903	386,255	377,542	344,851	426,566	465,134
Sheets and strip	7,903,983	8,603,181	9,931,923	7,008,209	4,440,210	4,713,204	4,478,673	6,850,670	8,371,991	8,246,474
Total Steel Mill Products	**20,692,316**	**24,255,651**	**26,163,218**	**17,069,895**	**16,662,532**	**19,898,340**	**15,494,970**	**17,518,135**	**21,134,582**	**19,306,612**
Other Steel Products	1,662,344	1,601,783	1,510,189	1,068,782	1,025,177	1,080,715	1,016,709	1,149,511	1,129,578	985,233
Total Steel Products	**22,354,660**	**25,857,434**	**27,673,407**	**18,138,677**	**17,687,709**	**20,979,055**	**16,511,679**	**18,667,646**	**22,264,160**	**20,291,845**
Iron Products and Ferroalloys	1,883,140	1,775,108	1,874,666	1,162,707	1,082,293	1,650,325	1,366,341	1,658,908	1,804,126	1,366,278
Grand Total	**24,237,800**	**27,632,542**	**29,548,073**	**19,301,384**	**18,770,002**	**22,629,380**	**17,878,020**	**20,326,554**	**24,068,286**	**21,658,123**

Table 20

Imports of Steel Mill Products

(Net tons)

Months	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977
January	1,748,205	2,661,496	2,081,905	1,097,621	1,968,663	1,281,332	1,265,093	1,264,346	1,537,793	1,121,267
February	2,042,595	2,047,766	2,160,912	1,156,903	1,600,300	1,234,087	1,666,905	1,329,115	2,219,592	1,002,459
March	1,963,629	2,028,519	2,225,055	1,113,127	1,355,969	1,141,878	1,119,981	1,095,893	1,988,233	1,175,410
April	1,597,645	1,908,639	2,215,824	1,182,177	1,029,288	1,760,883	1,249,874	1,071,955	2,174,892	1,114,786
May	1,625,683	1,954,680	1,997,669	1,352,954	1,695,850	1,772,326	1,614,653	1,654,757	1,511,255	1,817,390
June	1,732,361	2,360,744	1,775,968	1,296,840	1,783,632	1,665,347	1,202,689	1,365,619	1,359,820	1,818,620
July	2,059,421	1,577,020	2,655,913	1,410,816	1,113,031	1,663,042	1,079,040	1,514,423	1,784,814	1,582,037
August	1,529,357	2,028,485	2,515,952	1,617,273	1,450,515	2,226,364	1,374,121	1,783,935	1,870,390	1,831,115
September	1,586,335	2,539,131	2,181,795	1,521,966	1,190,779	1,747,583	1,063,755	1,640,695	1,584,169	2,057,413
October	1,359,103	1,302,521	1,985,702	1,755,164	1,145,847	1,871,511	1,141,939	1,603,188	1,715,239	1,761,726
November	1,926,933	1,699,656	2,208,978	1,835,197	1,258,423	1,921,117	1,179,301	1,651,951	2,016,345	1,937,947
December	1,521,047	2,146,995	2,157,543	1,729,858	1,090,494	1,612,870	1,533,920	1,542,258	1,372,040	2,086,549
Total*	**20,692,316**	**24,255,651**	**26,163,218**	**17,069,895**	**16,662,532**	**19,898,340**	**15,494,970**	**17,518,135**	**21,134,582**	**19,306,612**

*Revised totals include adjustments not shown in monthly figures.

Table 21

Imports of Steel Mill Products By Countries of Origin

(Net Tons)

	1986			1985			1984			1983			1982		
	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**
Canada	**3,203,059**	**15.5**	**3.6**	**2,868,279**	**11.8**	**3.0**	**3,167,308**	**12.1**	**3.2**	**2,378,617**	**13.9**	**2.9**	**1,844,199**	**11.1**	**2.4**
Mexico	431,394	2.1	0.5	271,794	1.1	0.3	796,812	3.0	0.8	651,009	3.8	0.8	112,875	0.7	0.1
Brazil	1,098,164	5.3	1.2	1,701,348	7.0	1.8	1,460,848	5.6	1.5	1,257,006	7.4	1.5	604,636	3.6	0.8
Argentina	170,259	0.8	0.2	191,094	0.8	0.2	300,174	1.1	0.3	282,253	1.7	0.3	167,487	1.0	0.2
Total Latin America	**1,962,877**	**9.5**	**2.2**	**2,624,705**	**10.8**	**2.7**	**3,132,081**	**12.0**	**3.2**	**2,414,527**	**14.2**	**2.9**	**974,399**	**5.8**	**1.3**
United Kingdom	702,957	3.4	0.8	611,546	2.5	0.6	476,229	1.8	0.5	363,750	2.1	0.4	486,436	2.9	0.6
Netherlands	498,080	2.4	0.6	577,872	2.4	0.6	446,355	1.7	0.5	370,681	2.2	0.4	375,481	2.2	0.5
Belgium-Luxembourg	985,372	4.8	1.1	1,061,421	4.4	1.1	921,036	3.5	0.9	615,008	3.6	0.7	929,440	5.6	1.2
France	1,205,506	5.8	1.3	1,596,266	6.6	1.7	1,126,512	4.3	1.1	913,743	5.4	1.1	977,372	5.9	1.3
West Germany	2,011,542	9.7	2.2	2,361,233	9.7	2.5	2,543,272	9.7	2.6	1,386,655	8.1	1.7	2,080,130	12.5	2.7
Italy	456,491	2.2	0.5	614,245	2.5	0.6	654,490	2.5	0.7	395,356	2.3	0.5	643,627	3.9	0.8
Total EEC*	**6,613,750**	**32.0**	**7.3**	**6,977,433**	**28.8**	**7.2**	**6,334,405**	**24.2**	**6.4**	**4,114,298**	**24.1**	**4.9**	**5,596,636**	**33.6**	**7.3**
Sweden	548,065	2.6	0.6	670,820	2.8	0.7	639,354	2.4	0.6	213,811	1.3	0.3	292,231	1.8	0.4
Finland	199,285	1.0	0.2	241,294	1.0	0.3	298,735	1.1	0.3	196,294	1.1	0.2	121,256	0.7	0.2
Poland	60,609	0.3	0.1	95,401	0.4	0.1	132,289	0.5	0.1	77,242	0.5	0.1	42,253	0.3	0.1
Spain	611,708	3.0	0.7	547,178	2.3	0.6	1,392,041	5.3	1.4	609,653	3.6	0.7	547,207	3.3	0.7
Romania	87,616	0.4	0.1	355,444	1.5	0.4	264,274	1.0	0.3	9,426	0.1		36,730	0.2	
Austria	132,096	0.6	0.1	306,550	1.3	0.3	326,120	1.2	0.3	35,418	0.2		102,252	0.6	0.1
Total Europe	**8,051,876**	**38.9**	**8.9**	**9,765,363**	**40.3**	**10.2**	**9,962,748**	**38.1**	**10.1**	**5,309,764**	**31.1**	**6.4**	**6,774,638**	**40.7**	**8.9**
Japan	4,422,244	21.4	4.9	5,974,508	24.6	6.2	6,630,005	25.3	6.7	4,236,915	24.8	5.1	5,185,138	31.1	6.8
Korea Republic	1,525,305	7.4	1.7	1,899,043	7.8	2.0	2,234,331	8.5	2.3	1,727,573	10.1	2.1	1,062,076	6.4	1.4
China-Taiwan	475,835	2.3	0.5	217,725	0.9	0.2	160,118	0.6	0.2	177,161	1.0	0.2	117,574	0.7	0.2
Republic of So. Africa	499,590	2.4	0.6	411,062	1.7	0.4	556,545	2.1	0.6	556,896	3.3	0.7	529,782	3.2	0.7
Total Asia & Africa	**7,266,080**	**35.1**	**8.1**	**8,801,485**	**36.3**	**9.1**	**9,685,397**	**37.0**	**9.8**	**6,761,079**	**39.6**	**8.1**	**6,939,285**	**41.6**	**9.1**
Oceania	**208,423**	**1.0**	**0.2**	**195,819**	**0.8**	**0.2**	**215,683**	**0.8**	**0.2**	**205,908**	**1.2**	**0.2**	**130,011**	**0.8**	**0.2**
Total Imports of Steel Mill Products	**20,692,316**	**100.0**	**23.0**	**24,255,651**	**100.0**	**25.2**	**26,163,218**	**100.0**	**26.4**	**17,069,895**	**100.0**	**20.5**	**16,662,532**	**100.0**	**21.8**

*Includes total for Denmark, Ireland and Greece. 1986 also includes Spain and Portugal.

**As developed in table 1A of this Report.

Country detail may not add to regional total because of omissions of some countries.

Table 22

Imports of Iron and Steel Products by Countries of Origin—1986

(Net tons)

Products	Grand Total	Canada	Mexico	Latin America: Venezuela	Latin America: Brazil	Latin America: Argentina	Latin America: Total Latin America
Steel Mill Products							
Ingots, blooms, billets, slabs, etc	2,084,096	213,171	67,412		405,632		473,597
Wire rods	1,357,875	376,954	60,523	2,248	51,520	1,098	159,453
Structural shapes-plain 3" & over	1,748,604	275,006	16,987		4,459	4,038	25,560
Steel piling	107,013	21,150					...
Plates	1,106,904	181,362	12,874		60,474	1,890	75,238
Rails standard	192,153	70,136			1		3
Rails other	52,583	12,824					...
Joint bars and tie plates	21,025	1,714					...
Track spikes	323	17					11
Wheels and axles	9,626	232	116		1,872		1,988
Bars—hot rolled	582,580	243,431	9,150		19,022	10,961	49,830
Bars shapes under 3 inches	166,369	56,280	1,437		3,651	870	6,005
Concrete reinforcing bars	454,735	27,198	6,316	14,417	29,660		104,928
Bars—cold finished	224,696	52,384	3,256		3,551	1,493	8,301
Tool steel	44,749	6,172	376		1,699	134	2,209
Standard pipe	697,034	34,248	50,122	7,109	21,209	3,519	82,036
Oil country goods	616,743	71,287	21,418	3,129	22,844	7,220	54,610
Line pipe	81,861	60,541	32,740	17,220	89,857	11,821	151,638
Mechanical tubing	237,247	64,256	1,970	153	1,749	1,982	6,762
Pressure tubing	23,981	416	205	1,249	824	72	2,350
Stainless pipe & tubing	35,653	4,474	372		6		378
Pipe & tubing nonclassified	28,524	10,405	497			1,279	1,776
Structural pipe & tube, square & rectangular	479,768	142,152	13,683	6,377	22,574	12,054	54,688
Wire drawn	594,433	210,020	3,024	6,782	11,387	695	25,847
Wire nails	393,231	103,180	3,333	680	1,249	811	10,549
Barbed wire	22,157	82	3,002		8,749	9	12,399
Galvanized wire fencing	11,509	5,289	4,597		94		4,743
Bale ties & bailing wire	696	38			8		86
Black plate	205,937	8,350					...
Tin plate	359,658	60,693		372	5,789		6,161
Tin free steel	110,569	6,450		125			125
Sheets—hot rolled	2,395,926	432,226	2,283	27,418	157,353	14,140	201,194
Sheets—cold rolled	2,692,824	143,307	20,925	38,133	148,100	71,903	279,109
Sheets—galvanized	2,321,108	233,169	90,898	16,056	11,710	22,818	142,444
All other metallic coated	209,730	4,062	63		1,264		1,327
Electric sheets & strip	81,703	12,638			591		591
Strip—hot rolled	43,557	13,130	1,491		2,172	1,367	5,445
Strip—cold rolled	159,135	44,614	2,324		9,090	85	11,499
Total steel mill products	**20,692,316**	**3,203,059**	**431,394**	**141,469**	**1,098,164**	**170,259**	**1,962,877**
Carbon	19,542,052	2,995,471	399,778	140,212	1,058,882	165,457	1,885,083
Alloy	855,078	188,627	19,982	1,257	34,498	4,672	61,200
Stainless	295,186	18,960	11,634		4,783	130	16,595

Country total may not add to regional total because of omissions of some countries

Table 22 *(continued)*

Imports of Iron and Steel Products by Countries of Origin—1986

(Net tons)

Products	Europe													
	European Economic Community													
	United Kingdom	Netherlands	Belgium-Luxembourg	France	Fed Rep Germany	Italy	Greece	Spain	Total E.E.C.*	Sweden	Finland	Austria	Romania	Total Other Europe
Steel Mill Products														
Ingots, blooms, billets, slabs, etc	216,394	72,054	74,665	123,674	265,194	12,261		42,245	**806,799**	308,968	17,296	26		**326,365**
Wire rods	51,263	12,220	27,162	120,568	24,358	13,647		53,292	**302,508**	45,552	6,134	2,040		**104,882**
Structural shapes plain 3" & over	149,462	921	315,742	61,634	127,087	414		175,612	**830,873**	704		480		**60,085**
Steel piling	16,600		27,201	21,285	20,527				**85,702**					**161**
Plates	44,905	1,890	170,405	20,223	86,508	26,591	5,998	68,318	**430,816**	68,542	65,268	1,702	59,620	**243,674**
Rails standard	3,836		7,095	13,296	34,837				**59,064**	270		60		**330**
Rails other	146		7,476	3,885	12,377	3			**23,888**	270		1		**271**
Joint bars and tie plates	188		262		141				**594**	36				**36**
Track spikes														
Wheels and axles	4	6		175	703	9	1	10	**908**	1	1	72		**76**
Bars—hot rolled	58,845	762	26,202	10,741	22,399	3,728		13,854	**166,530**	11,118	2	551		**12,339**
Bars shapes under 3 inches	3,191	7	13,141	1,055	2,223	1,029		4,434	**25,096**	1,856		26		**1,882**
Concrete reinforcing bars	2		6	111		5,505			**5,624**	9				**80,115**
Bars—cold finished	26,470	99	1,218	40,449	6,213	4,869	64	17,939	**97,328**	1,017	2,822	516		**5,709**
Tool steel	1,828		66	708	10,815	1,654		51	**15,123**	10,079		1,070		**13,494**
Standard pipe	1,215	13,614	16,339	12,604	30,413	17,232	2,679	2,457	**97,204**	7,128			5,934	**26,283**
Oil country goods	4,675	608	2,606	5,235	64,259	28,044	6,593	14,796	**126,816**	1,367	299	9,865	720	**18,080**
Line pipe	1,750	555	99,106	62,819	52,540	51,045	10,579	4,608	**243,000**	3,290	1,659	220	2,486	**11,990**
Mechanical tubing	6,518	319	2,142	4,493	16,563	4,543		11,084	**45,593**	9,181		613	88	**16,805**
Pressure tubing	1,586	7	351	296	2,405	3,700		979	**9,324**	1,756		74		**6,579**
Stainless pipe & tubing	1,467	183	29	1,211	1,570	1,781		175	**6,215**	7,675	6	490		**8,218**
Pipe & tubing nonclassified	981	986	240	2	4,754	4,558		167	**11,681**	249		2		**258**
Structural pipe & tube, square & rectangular	1,471	34	4,576	6,292	21,665	8,754	1,422	6,453	**50,657**	259	444		9,447	**31,700**
Wire drawn	25,045	2,671	74,321	51,869	25,411	7,748	11	344	**187,625**	11,079	1,241	1,965		**18,277**
Wire nails	1,084	549	1,640	1,515	930	392		13,603	**19,784**	63		3,070	3,210	**50,526**
Barbed wire			1,970	155	9			64	**2,198**					**1,528**
Galvanized wire fencing	6	20	559	6	102			23	**717**					
Bale ties & baling wire		38	2		30				**71**					
Black plate	359	9,902	13,235	5,175	6,054		22,441		**57,167**					**57**
Tin plate	282	9,351	2,402	22,820	36,380			5,037	**77,049**					**15,541**
Tin free steel	76	395	1,706	5,223	24,119				**31,519**					
Sheets—hot rolled	9,385	188,894	42,033	333,899	373,884	102,320		5,183	**1,055,594**	15,066	53,172	30,326		**113,876**
Sheets—cold rolled	26,729	168,606	82,998	159,837	432,759	99,446	52,954	80,167	**1,101,586**	10,498	22,175	68,315		**154,645**
Sheets—galvanized	1,952	15,268	23,526	76,831	254,573	46,200	1,046	75,758	**525,103**	9,217	18,395	6,284	6,111	**71,519**
All other metallic coated	1,289		2,765	14,712	9,569	21		5,865	**35,852**	2,582	7,358	3,159		**18,238**
Electric sheets & strip	2,180		458	153	12,927	10,436			**26,154**	8,380		14		**8,495**
Strip—hot rolled	148		410		1,211	43	1,099		**2,907**	4,243				**4,243**
Strip—cold rolled	5,543	129	929	3,661	26,667	621	2,315	9,202	**49,083**	7,538	4,013	127		**11,850**
Total steel mill products	**702,957**	**498,080**	**985,372**	**1,205,506**	**2,011,542**	**456,491**	**107,202**	**611,708**	**6,613,750**	**548,065**	**199,285**	**132,096**	**87,616**	**1,438,126**
Carbon	623,147	467,175	957,785	1,115,940	1,804,079	405,556	107,203	581,953	**6,207,425**	451,379	185,824	126,164	87,517	**1,320,832**
Alloy	67,312	10,671	11,913	54,360	96,110	31,902		11,982	**284,423**	63,180	3,144	5,223	99	**72,534**
Stainless	12,498	235	15,674	35,206	21,353	19,033		17,773	**121,902**	33,507	10,318	708		**44,760**

*Includes totals for Ireland, Denmark & Portugal

Table 22 *(continued)*

Imports of Iron and Steel Products by Countries of Origin—1986

(Net tons)

Products	Asia					Oceania		Africa	
	People's Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Total Oceania	Republic of South Africa	Total Africa
Steel Mill Products									
Ingots, blooms, billets, slabs, etc.		31,462	117	158,353	**189,932**	12,332	12,332	61,901	**61,901**
Wire rods		956	40,441	268,142	**387,595**	10,953	11,513	14,971	**14,971**
Structural shapes-plain 3" & over		58,389	10,771	403,911	**473,084**	283	283	83,713	**83,713**
Steel piling					...				...
Plates		59,604	3,613	29,672	**110,497**	2,057	2,057	63,238	**63,260**
Rails standard		2,541		60,079	**62,620**				...
Rails other		5,034		10,424	**15,463**			137	**137**
Joint bars and tie plates		496	16	18,158	**18,680**				...
Track spikes		26			**26**	269	269		...
Wheels and axles	683	4	349	5,039	**6,171**			250	**250**
Bars—hot rolled	853	9,223	18,466	73,165	**110,450**				...
Bars shapes under 3 inches	22	10,703	35,918	29,501	**76,346**	174	174	585	**585**
Concrete reinforcing bars		61,756	116,705	7,975	**226,736**			10,134	**10,134**
Bars—cold finished	836	4,491	2,360	50,719	**58,528**			2,418	**2,445**
Tool steel		1,286	22	6,429	**7,736**	14	15		...
Standard pipe	251	238,990	74,224	63,560	**433,451**	2,589	2,798	20,987	**21,015**
Oil country goods		68,526	19,480	241,631	**340,782**			4,425	**5,160**
Line pipe		92,347	3,454	236,958	**349,160**	1	1	1,531	**1,531**
Mechanical tubing		19,247	10,338	62,224	**99,114**	435	435	4,260	**4,281**
Pressure tubing		585	22	4,074	**4,698**			614	**614**
Stainless pipe & tubing		773	3,358	12,232	**16,365**		1		**3**
Pipe & tubing nonclassified		105	1,552	2,665	**4,377**			28	**28**
Structural pipe & tube, square & rectangular	545	34,884	37,347	57,130	**176,841**	10,044	10,044	13,096	**13,686**
Wire drawn	4,409	12,116	4,473	112,138	**135,196**	4,561	5,475	11,973	**11,992**
Wire nails	20,975	115,859	33,677	28,084	**208,238**	53	385	1	**568**
Barbed wire	693	3,780	1	96	**4,660**		97	1,019	**1,194**
Galvanized wire fencing			448		**448**		311		...
Bale ties & baling wire	296	20	79	44	**483**			19	**19**
Black plate		1,061	7	139,295	**140,363**				...
Tin plate		7,632		183,479	**191,111**	9,103	9,103		...
Tin free steel		1,678		70,796	**72,474**				...
Sheets—hot rolled	12	211,234	2,463	303,092	**521,288**	393	393	70,753	**71,356**
Sheets—cold rolled		301,352	52,285	573,238	**927,078**	15,074	15,417	71,683	**71,683**
Sheets—galvanized		150,706	1,142	1,020,641	**1,172,595**	90,876	103,701	61,853	**72,577**
All other metallic coated		8,711	232	110,217	**119,206**	30,469	31,045		...
Electric sheets & strip		1,378		32,446	**33,825**				...
Strip—hot rolled	22	6,688	2,242	8,826	**17,779**	52	52		...
Strip—cold rolled		1,663	33	37,815	**39,569**	2,405	2,521		...
Total steel mill products	**29,592**	**1,525,305**	**475,835**	**4,422,244**	**6,752,967**	**192,135**	**208,423**	**499,590**	**513,113**
Carbon	29,592	1,506,544	464,414	4,116,073	**6,416,226**	190,309	206,594	496,899	**510,419**
Alloy		4,384	2,695	239,209	**246,449**	1,825	1,826	17	**17**
Stainless	6	14,377	8,725	66,963	**90,290**	1	2	2,674	**2,677**

Table 22A

Imports of Iron and Steel Products by Countries of Origin—1986

(Net tons)

Products	Grand Total	Canada	Mexico	Latin America: Venezuela	Latin America: Brazil	Latin America: Argentina	Latin America: Total Latin America
Other Steel Products:							
Structural shapes: fabricated	424,966	157,001	1,375	34	2,922	123	4,477
Shapes—cold formed	2,178	1,753	...	...	...	...	...
Sashes and frames	4,394	2,999	109	...	...	...	109
Fence or sign posts	4,930	38	4,136	63	127	...	4,326
Wire—nonmetallic covered	1,451	78	22	...	...	...	22
Wire rope	129,449	3,626	1,632	39	749	...	2,420
Wire strand	177,225	6,425	183	...	2,633	6,168	9,122
Welded wire fabric	51,699	18,934	5,003	13,297	63	2	18,560
Other nails and staples	45,437	2,109	409	...	1	...	1,897
Bale ties—strip	615	...	...	...	...	...	...
Bolts, nuts and rivets	638,325	69,396	1,983	...	2,149	86	4,292
Grinding balls	4,134	2,281	22	...	274	167	511
Blanks, nonrectangular flat rolled	47,822	1,931	651	...	25,032	1,258	26,940
Conduit	22,871	156	284	...	...	...	441
Pipe and tube fittings	106,848	3,265	653	1,046	7,732	29	10,071
Total other steel products	1,662,344	269,992	16,463	14,477	41,680	7,834	83,189
Total steel products	22,354,660	3,473,051	447,857	155,946	1,139,844	178,093	2,046,066
Iron products & ferroalloys:							
Bar iron, iron slabs & blooms etc	127	...	...	...	...	...	...
Cast iron soil pipe and fittings	5,297	874	20	2,767	...	...	2,787
Other cast iron pipe and fittings	16,634	668	204	58	1,003	3	1,269
Malleable cast iron pipe fittings	20,965	135	435	337	874	...	1,645
Castings and forgings	200,631	29,530	10,135	...	13,983	6	24,132
Pig iron	294,967	112,607	19	...	143,154	...	143,173
Sponge iron	97,585	45,579	...	39,407	184	...	39,591
Ferromanganese (manganese content)	388,093	52,036	28,083	...	12,456	...	40,539
Ferrosilicon (silicon content)	218,576	38,663	1,659	39,043	49,872	300	91,755
Ferrochromium (chromium content)	387,867	107	...	...	8,047	...	8,047
Other ferroalloys	252,399	2,170	19,342	...	22,690	...	63,543
Total Iron Products & Ferroalloys	1,883,140	282,368	59,896	81,611	252,262	309	416,480
Grand Total	24,237,800	3,755,419	507,753	237,557	1,392,106	178,402	2,462,546
Iron and steel scrap	723,560	562,603	69,930	641	9,302	...	81,134

Country total may not add to regional total because of omissions of some countries

Table 22A *(continued)*

Imports of Iron and Steel Products by Countries of Origin—1986

(Net tons)

Products	Europe												
	European Economic Community												
	United Kingdom	Nether-lands	Belgium-Luxembourg	France	Fed Rep Germany	Italy	Greece	Spain	Total E.E.C.*	Sweden	Finland	Austria	Romania	Total Other Europe
Other Steel Products:														
Structural shapes: fabricated	5,306	217	1,450	543	3,326	2,774	304	1,221	16,126	1,657	985	158	...	3,060
Shapes—cold formed	...	1	...	32	212	...	...	...	245	166	...	9	...	175
Sashes and frames	48	164	32	42	231	147	...	3	1,006	48	...	...	...	56
Fence or sign posts	1	2	8	108	...	87	...	...	241	...	...	...	...	...
Wire—nonmetallic covered	47	1	14	1	32	6	...	...	135	2	2	...	...	130
Wire rope	1,489	1,246	13,727	13,707	3,175	4,494	...	2,462	40,660	61	...	211	...	2,036
Wire strand	1,811	5,749	16,297	7,280	4,714	20,663	...	22,221	78,776	3	...	674	...	703
Welded wire fabric	2,201	734	1,005	61	2,891	2	...	851	8,701	624	...	...	...	697
Other nails and staples	536	206	287	2,373	6,621	1,208	...	1,154	12,387	2,555	20	1,059	...	3,711
Bale ties—strip	...	...	...	...	566	...	...	...	566	...	...	...	...	...
Bolts, nuts and rivets	1,449	2,932	298	625	6,339	12,001	...	1,370	25,248	942	4	255	...	10,944
Grinding balls	9	...	19	...	142	318	...	101	590	1	...	...	...	1
Blanks, nonrectangular, flat rolled	49	619	52	68	1,606	6	...	5,961	8,362	32	...	31	...	63
Conduit	15	1	181	1,219	115	...	...	11	1,541	1	...	...	...	104
Pipe and tube fittings	869	404	159	2,606	5,128	5,762	...	524	15,589	40	...	355	5,468	6,182
Total other steel products	**13,830**	**12,275**	**33,530**	**28,665**	**35,100**	**47,469**	**304**	**35,880**	**210,173**	**6,131**	**1,011**	**2,751**	**5,468**	**27,862**
Total steel products	**716,787**	**510,355**	**1,018,902**	**1,234,171**	**2,046,642**	**503,960**	**107,506**	**647,588**	**6,823,923**	**554,196**	**200,296**	**134,847**	**93,084**	**1,465,988**
Iron products & ferroalloys:														
Bar iron, iron slabs & blooms etc.	21	...	...	...	...	3	...	...	24	...	...	...	...	28
Cast iron soil pipe and fittings	...	...	...	...	103	...	...	...	103	...	...	...	...	...
Other cast iron pipe and fittings	130	...	20	3	18	77	...	204	454	23	...	5	...	59
Malleable cast iron pipe fittings	239	2	...	170	36	3	...	...	549	...	1	...	...	1
Castings and forgings	3,086	339	334	2,275	5,202	25,041	15	2,824	41,680	2	1	3	704	1,551
Pig iron	...	...	...	...	...	...	...	...	...	...	...	...	...	47
Sponge iron	245	...	12	1	1,616	166	...	...	2,040	2,414	...	...	...	2,415
Ferromanganese (manganese content)	...	...	4,952	86,729	25,775	...	...	9,164	126,620	...	...	...	...	7,100
Ferrosilicon (silicon content)	30	20	...	7,615	2,933	558	...	1,230	13,421	...	...	...	...	68,920
Ferrochromium (chromium content)	6	...	...	...	7,157	454	4,409	...	12,045	4,780	14,386	...	...	92,640
Other ferroalloys	356	41	39	540	168	806	...	2,705	14,401	20	...	429	...	39,613
Total Iron Products & Ferroalloys	**4,712**	**401**	**5,358**	**97,332**	**43,008**	**27,108**	**4,424**	**16,127**	**211,336**	**7,240**	**14,387**	**437**	**704**	**212,374**
Grand Total	**721,499**	**510,756**	**1,024,260**	**1,331,503**	**2,089,650**	**531,068**	**111,930**	**663,715**	**7,035,259**	**561,436**	**214,683**	**135,284**	**93,788**	**1,678,362**
Iron and steel scrap	22,462	816	128	291	2,365	17,114	...	...	43,176	12	...	58	...	84

*Includes totals for Ireland, Denmark & Portugal.

Table 22A *(continued)*

Imports of Iron and Steel Products by Countries of Origin—1986

(Net tons)

Products	Asia					Oceania		Africa	
	People's Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Total Oceania	Republic of South Africa	Total Africa
Other Steel Products:									
Structural shapes, fabricated	44	33,721	19,929	165,699	**233,977**	106	8,175	2,126	**2,149**
Shapes—cold formed	...	...	...	4	**5**	...	...	...	...
Sashes and frames	...	52	116	17	**223**	...	...	...	...
Fence or sign posts	...	53	216	...	**306**	...	19	...	...
Wire—nonmetallic covered	...	402	365	39	**1,074**	2	3	...	**8**
Wire rope	10	51,375	3,308	23,141	**80,050**	...	...	554	**658**
Wire strand	56	28,035	271	41,161	**69,858**	...	...	12,337	**12,340**
Welded wire fabric	1,869	540	556	1,769	**4,794**	...	13	...	...
Other nails and staples	1,809	17,356	1,554	4,239	**25,107**	144	145	...	**82**
Bale ties—strip	...	...	1	48	**49**	...	...	...	...
Bolts, nuts and rivets	21,243	44,677	214,583	238,299	**524,140**	767	779	3,389	**3,525**
Grinding balls	...	45	48	653	**747**	...	...	5	**5**
Blanks, nonrectangular flat rolled	...	905	8	1,358	**3,458**	...	...	3,927	**7,069**
Conduit	...	20,140	343	65	**20,628**	...	...	...	...
Pipe and tube fittings	1,846	21,457	18,755	26,296	**70,260**	582	582	841	**899**
Total other steel products	**26,878**	**218,758**	**260,051**	**502,789**	**1,034,674**	**1,603**	**9,719**	**23,179**	**26,735**
Total steel products	**56,470**	**1,744,063**	**735,886**	**4,925,033**	**7,787,641**	**193,738**	**218,142**	**522,769**	**539,848**
Iron products & ferroalloys:									
Bar iron, iron slabs & blooms etc	...	...	...	6	**6**	69	69	...	...
Cast iron soil pipe and fittings	...	690	124	51	**1,534**	...	...	...	...
Other cast iron pipe and fittings	3,043	3,477	5,444	119	**14,148**	...	...	18	**37**
Malleable cast iron pipe fittings	604	1,637	2,210	7,096	**18,635**	...	...	...	...
Castings and forgings	15,699	4,287	15,082	8,058	**102,078**	28	480	446	**1,180**
Pig iron	6,041	110	3	...	**6,196**	...	...	32,944	**32,944**
Sponge iron	...	...	299	7,658	**7,960**	...	...	...	...
Ferromanganese (manganese content)	...	...	...	2,826	**2,826**	13,423	13,423	145,549	**145,549**
Ferrosilicon (silicon content)	...	...	...	109	**109**	...	...	5,707	**5,707**
Ferrochromium (chromium content)	1,102	...	...	334	**1,436**	...	...	230,225	**273,593**
Other ferroalloys	170	...	4	2,107	**3,791**	14,003	31,550	92,177	**97,332**
Total Iron Products & Ferroalloys	**26,659**	**10,200**	**23,167**	**28,365**	**158,719**	**27,524**	**45,522**	**507,066**	**556,342**
Grand Total	**83,129**	**1,754,263**	**759,053**	**4,953,398**	**7,946,360**	**221,262**	**263,664**	**1,029,835**	**1,096,190**
Iron and steel scrap	...	92	8	12,985	**13,118**	23,135	23,158	...	**287**

Table 23

Imports of Iron and Steel Products by Customs District—1986

(Net tons)

Products	Grand Total	ATLANTIC COAST											
		Boston	Providnce Brdgport	New York City	Phila.	Baltimore/ Wash., DC	Norfolk	Wil- mington	Charles- ton	Savannah	Tampa	Miami	Total
Steel Mill Products													
Ingots, blooms, billets, slabs, etc	**2,084,096**	31	889	162,386	108,996	5,670	131,552	125	15,024	3,829	12	—	**428,514**
Wire rods	**1,357,875**	453	46,639	16,597	59,101	33,483	588	5,548	8,901	48,421	57,425	5,070	**282,226**
Structural shapes-plain 3" & over	**1,748,604**	72	186,101	30,832	29,644	43,753	60	55,321	509	66,566	46,106	4,761	**463,725**
Steel piling	**107,013**	—	18,957	1,489	2,484	1,885	—	—	—	3,743	3,481	1,758	**33,797**
Plates	**1,106,904**	112	90,307	3,516	40,992	9,255	1,502	15,851	1,848	34,306	25,216	7,443	**230,348**
Rails standard	**192,153**	—	2,059	1	250	3,338	92	—	4	232	24	1	**6,001**
Rails other	**52,583**	—	112	88	4,191	100	—	204	—	330	125	—	**5,150**
Joint bars and tie plates	**21,025**	—	—	—	410	1,749	3	—	—	—	—	—	**2,162**
Track spikes	**323**	—	—	—	288	—	—	—	—	—	—	—	**288**
Wheels and axles	**9,626**	21	33	856	2,519	862	74	3	82	267	—	1	**4,718**
Bars—Hot rolled	**582,580**	341	12,464	4,030	12,428	12,931	1,014	2,470	1,441	8,842	3,332	4,961	**64,254**
Bars shapes under 3 inches	**166,369**	210	9,573	1,769	9,681	3,702	21	856	445	4,027	2,148	129	**32,561**
Concrete reinforcing bars	**454,735**	—	25,867	1	13,599	2,839	—	661	3,071	760	2,134	78,483	**127,415**
Bars—Cold finished	**224,696**	922	6,925	11,952	13,146	8,414	5,110	6,148	1,103	2,113	1,603	1,970	**59,406**
Tool steel	**44,749**	3,266	5,442	4,982	1,827	6,057	2,837	329	1,137	357	2	117	**26,353**
Standard pipe	**697,034**	572	46,142	3,907	69,694	31,330	2,164	20,676	6,945	32,123	25,239	4,537	**243,329**
Oil country goods	**616,743**	—	5,230	700	18,534	2,132	1,031	809	445	4,181	8,045	—	**41,107**
Line pipe	**817,861**	—	3,783	1,179	13,079	508	87	100	849	2,805	32,692	—	**55,082**
Mechanical tubing	**237,247**	81	3,127	4,141	11,781	11,193	1,354	982	2,833	4,435	1,899	580	**42,406**
Pressure tubing	**23,981**	1	4,742	492	2,761	117	35	—	65	894	190	950	**10,247**
Stainless pipe & tubing	**35,653**	67	117	5,733	4,301	506	61	130	464	675	360	—	**12,414**
Pipe & tubing nonclassified	**28,524**	2	70	160	1,812	158	—	1,140	11	110	486	121	**4,070**
Structural pipe & tube, sq. & rect	**479,768**	106	24,636	818	12,545	5,166	505	7,369	2,876	17,804	12,210	2,700	**86,735**
Wire drawn	**594,433**	5,115	1,234	45,041	8,237	28,114	10,503	7,313	21,895	6,192	6,396	13,110	**153,150**
Wire nails	**393,231**	11,857	13,935	24,458	24,286	8,854	1,898	17,022	7,962	13,723	9,433	11,402	**144,830**
Barbed wire	**22,157**	2	190	149	415	965	265	625	386	554	1,098	254	**4,903**
Galvanized wire fencing	**11,509**	106	12	136	21	53	41	—	106	—	265	56	**796**
Bale ties & baling wire	**696**	—	—	247	44	—	16	3	—	20	—	53	**383**
Black plate	**205,937**	—	30,626	10,080	38,993	7,014	1,640	223	—	17,768	1,454	—	**107,798**
Tin plate	**359,658**	—	12,922	353	15,856	12,075	—	—	1,458	6,510	7,497	—	**56,671**
Tin free steel	**110,569**	—	1,324	258	5,680	2,426	—	—	3	12	428	—	**10,131**
Sheets—Hot rolled	**2,395,926**	196	147,830	3,139	168,886	11,381	175	47,673	1,888	22,447	28,299	9,421	**441,335**
—Cold rolled	**2,692,824**	3,734	240,109	72,276	268,849	43,266	34,034	49,467	20,704	64,793	8,242	15,791	**821,265**
Sheets galvanized	**2,321,108**	794	74,533	12,801	220,850	27,139	65,660	17,910	39,355	62,052	71,437	37,683	**630,214**
All other metallic coated	**209,730**	109	496	10,582	23,884	75	87	1,086	699	2,726	3,424	1,407	**44,575**
Electric sheets & strip	**81,703**	—	15,206	27	6,723	441	48	224	—	11,539	323	—	**34,531**
Strip—Hot rolled	**43,557**	22	2,972	341	389	215	—	132	31	441	4,388	129	**9,060**
—Cold rolled	**159,135**	2,138	17,291	17,293	4,140	3,341	206	588	5,744	3,497	604	1,441	**56,283**
Total Steel Mill Products	**20,692,316**	30,328	1,051,897	452,910	1,221,318	330,508	262,664	260,986	148,284	449,092	366,015	204,328	**4,778,233**
Carbon	**19,542,052**	19,961	1,000,940	381,772	1,139,935	261,477	253,282	251,521	132,013	412,371	358,398	203,337	**4,415,007**
Alloy	**855,078**	5,280	40,936	30,364	37,762	48,378	7,817	8,113	12,223	27,961	7,005	145	**225,984**
Stainless	**295,186**	5,087	10,019	40,674	43,621	20,653	1,565	1,352	4,048	8,760	613	846	**137,238**

Table 23 *(continued)*

Imports of Iron and Steel Products by Customs District—1986

(Net tons)

Products	GULF COAST-MEXICAN BORDER							
	Mobile	New Orleans	Port Arthur	Houston	Dallas	Laredo	El Paso Nogales	Total
Steel Mill Products								
Ingots, blooms, billets, slabs, etc	207,583	223,330	87,382	6,790	—	57,288	199	582,572
Wire rods	28,365	142,490	—	76,326	11,128	5,203	—	263,512
Structural shapes-plain 3" & over	47,695	114,500	—	201,540	745	10,930	33	375,443
Steel piling	188	6,970	—	15,914	—	—	—	23,072
Plates	21,304	110,457	—	171,959	1,372	12,817	997	318,906
Rails standard	44,092	2,696	—	6,869	—	—	—	53,657
Rails other	9,745	15,207	—	969	—	—	—	25,921
Joint bars and tie plates	5,440	6,936	—	219	—	—	—	12,595
Track spikes	—	—	—	11	—	—	—	11
Wheels and axles	117	464	—	59	10	116	—	766
Bars—Hot rolled	3,165	26,345	49	22,484	1,067	7,714	111	60,935
Bars shapes under 3 inches	349	5,910	—	7,566	—	507	—	14,332
Concrete reinforcing bars	—	8,518	—	26,925	—	5,301	22	40,766
Bars—Cold finished	1,676	4,607	—	16,990	—	3,256	—	26,529
Tool steel	556	420	—	1,095	—	359	—	2,430
Standard pipe	1,002	39,745	—	78,965	19	50,150	3	169,884
Oil country goods	257	43,269	—	333,756	633	6,633	10	384,558
Line pipe	27,051	134,936	—	322,488	—	31,097	238	515,810
Mechanical tubing	4	13,550	—	41,613	690	1,970	—	57,827
Pressure tubing	—	1,057	—	5,953	9	1	—	7,020
Stainless pipe & tubing	423	1,413	—	9,265	44	372	—	11,517
Pipe & tubing nonclassified	—	600	—	7,843	927	497	—	9,867
Structural pipe & tube, sq. & rect.	1,935	25,544	—	71,829	9,856	12,854	—	122,018
Wire drawn	1,061	46,325	—	18,051	182	2,940	1,100	69,659
Wire nails	22	21,083	—	26,960	261	3,285	31	51,642
Barbed wire	381	4,665	—	4,627	—	2,998	3	12,674
Galvanized wire fencing	—	20	—	74	—	4,538	43	4,675
Bale ties & baling wire	—	61	—	—	—	—	—	61
Black plate	2,358	17,590	—	2,961	—	—	—	22,909
Tin plate	8,122	30,171	—	7,910	—	—	—	46,203
Tin free steel	1,686	9,322	—	10,433	—	—	—	21,441
Sheets—Hot rolled	34,376	149,942	—	266,413	1,152	2,005	—	453,888
—Cold rolled	23,624	308,150	—	138,456	—	20,902	3,259	494,391
Sheets galvanized	11,559	269,854	—	245,460	—	80,567	4,045	611,485
All other metallic coated	2,235	53,856	—	10,423	3	63	107	66,687
Electric sheets & strip	—	12,034	—	450	—	—	—	12,484
Strip—Hot rolled	1,265	3,028	—	6,619	—	1,491	—	12,403
—Cold rolled	1,408	14,800	—	6,598	3	1,596	669	25,074
Total Steel Mill Products	**489,046**	**1,869,862**	**87,432**	**2,172,862**	**28,102**	**327,454**	**10,873**	**4,985,624**
Carbon	484,231	1,783,635	81,243	2,058,186	22,847	309,523	10,695	**4,750,360**
Alloy	2,608	76,262	6,189	90,731	5,209	6,297	178	**187,474**
Stainless	2,206	9,965		23,946	46	11,634		**47,797**

Table 23 *(continued)*

Imports of Iron and Steel Products by Customs District—1986

(Net Tons)

Products	PACIFIC COAST						OFF SHORE				
	San Diego	Los Angeles	San Francisco	Columbia-Snake	Seattle	Total	Virgin islands	Anchorage	Honolulu	San Juan	Total
Steel Mill Products											
Ingots, blooms, billets, slabs, etc	9,925	352,514	416	37,460	49,427	**449,742**	—	—	1,048	—	**1,048**
Wire rods	—	201,458	52,601	757	29,622	**284,438**	—	—	—	8,279	**8,279**
Structural shapes-plain 3" & over	6,057	263,487	106,507	45,331	17,387	**438,768**	—	1,866	1,725	12,720	**16,311**
Steel piling	—	788	3,904	2,098	4,237	**11,027**	—	—	—	227	**227**
Plates	—	90,262	30,914	35,139	21,041	**167,356**	—	455	752	4,944	**6,151**
Rails standard	—	9,366	4,377	44,103	3,419	**61,265**	1	640	—	—	**641**
Rails other	—	3,432	264	3,603	107	**7,406**	—	—	—	—	—
Joint bars and tie plates	—	—	25	4,451	50	**4,526**	—	—	—	—	—
Track spikes	—	—	—	2	—	**2**	—	—	—	—	—
Wheels and axles	—	131	516	—	1,966	**2,613**	—	—	—	—	—
Bars—Hot rolled	1,324	40,418	5,047	5,424	1,975	**54,188**	38	201	685	23,151	**24,075**
Bars shapes under 3 inches	929	38,552	6,837	3,442	1,770	**51,530**	3	17	280	1,948	**2,248**
Concrete reinforcing bars	663	56,475	23,859	1,197	4,201	**86,395**	2,132	1,543	4,220	165,354	**173,249**
Bars—Cold finished	—	29,252	3,830	6,464	2,880	**42,426**	—	—	59	1,074	**1,133**
Tool steel	17	2,283	79	288	301	**2,968**	—	—	—	—	—
Standard pipe	6	157,241	42,995	15,037	14,438	**229,717**	43	83	1,594	6,464	**8,184**
Oil country goods	3,792	33,324	481	4,538	6,369	**48,504**	—	67,105	—	336	**67,441**
Line pipe	—	107,158	7,503	43,694	16,788	**175,143**	—	12,002	—	971	**12,973**
Mechanical tubing	—	23,431	8,181	10,611	7,509	**49,732**	—	181	168	7,596	**7,945**
Pressure tubing	204	1,131	238	—	49	**1,622**	—	—	—	414	**414**
Stainless pipe & tubing	—	3,890	142	932	262	**5,226**	—	817	—	30	**847**
Pipe & tubing nonclassified	—	492	157	3	405	**1,057**	—	127	25	2,374	**2,526**
Structural pipe & tube, sq. & rect	—	78,568	19,342	12,379	10,610	**120,899**	—	440	564	4,088	**5,082**
Wire drawn	55	25,927	6,897	11,517	36,465	**80,861**	—	—	2,192	13,991	**16,183**
Wire nails	24	42,628	27,891	1,147	40,739	**112,429**	—	—	724	1,392	**2,116**
Barbed wire	—	816	912	541	218	**2,487**	—	—	120	1,918	**2,038**
Galvanized wire fencing	15	62	—	—	626	**703**	1	—	113	76	**190**
Bale ties & baling wire	—	40	96	—		**136**	—	—	—	79	**79**
Black plate	—	21,679	5,157	—	—	**26,836**	—	—	—	—	—
Tin plate	—	21,441	109,210	11	—	**130,662**	—	—	4,981	18,419	**23,400**
Tin free steel	—	27,921	25,065	—	—	**52,986**	—	—	—	4,378	**4,378**
Sheets—Hot rolled	—	363,910	63,670	35,540	18,377	**481,497**	—	1,304	984	4,261	**6,549**
—Cold rolled	—	356,798	139,282	11,195	11,748	**519,023**	—	—	—	7,529	**7,529**
Sheets galvanized	—	205,262	54,174	56,583	45,626	**361,645**	221	737	2,901	39,192	**43,051**
All other metallic coated	—	28,911	12,114	2,585	5,584	**49,194**	—	44	801	7,190	**8,035**
Electric sheets & strip	—	4,717	1,076	—	32	**5,825**	—	—	—	—	—
Strip—Hot rolled	—	5,945	769	715	698	**8,127**	—	—	32	98	**130**
—Cold rolled	79	10,373	5,932	2,797	659	**19,840**	—	—	15	1,697	**1,712**
Total Steel Mill Products	**23,090**	**2,600,082**	**770,461**	**399,584**	**355,584**	**4,148,801**	**2,439**	**87,562**	**23,974**	**340,192**	**454,164**
Carbon	22,986	2,519,535	756,835	383,373	343,025	**4,016,754**	805	85,333	23,974	337,949	**448,061**
Alloy	104	54,171	8,237	13,516	7,700	**83,728**	1,635	1,413		822	**3,870**
Stainless	1	35,376	5,389	2,695	4,858	**48,319**		817		1,421	**2,238**

Table 23 *(continued)*

Imports of Iron and Steel Products by Customs District—1986

(Net Tons)

Products	GREAT LAKES-CANADIAN BORDER												
	Portland	St. Albans	Ogdensburg	Buffalo	Great Falls	Pembina	Duluth Mineapls	Milwaukee	Detroit	Chicago	Cleveland	St. Louis	Total
Steel Mill Products													
Ingots, blooms, billets, slabs, etc	5	2	337	40,385	—	23	—	1,274	253,112	122,981	204,099	—	**622,218**
Wire rods	25	4,980	85,644	133,014	—	—	—	—	212,090	27,236	53,203	3,229	**519,421**
Structural shapes-plain 3" & over	2,757	22,217	14,104	133,644	963	15,938	320	4,713	133,691	97,362	28,642	8	**454,359**
Steel piling	—	621	3,644	140	—	—	1,836	—	15,576	14,916	2,157	—	**38,890**
Plates	71	5,395	4,860	57,933	462	1,445	4,656	12,586	176,684	78,729	41,030	292	**384,143**
Rails standard	990	224	6,977	41,537	—	4,840	1,017	—	12,526	1,438	1,039	—	**70,588**
Rails other	—	5	8,598	3,232	—	1	155	—	1,300	574	243	—	**14,108**
Joint bars and tie plates	72	5	—	863	—	5	—	—	732	64	1	—	**1,742**
Track spikes	5	—	7	5	—	—	—	—	—	—	—	6	**23**
Wheels and axles	6	13	65	10	—	4	14	32	115	187	1,081	—	**1,527**
Bars—Hot rolled	42	6,518	9,648	53,334	2,399	19,370	—	67	201,552	27,682	55,631	2,880	**379,123**
Bars shapes under 3 inches	23	1,034	398	34,375	19	3	287	—	20,940	7,248	1,358	—	**65,694**
Concrete reinforcing bars	13	2,486	2,491	21,598	144	—	—	—	141	37	—	—	**26,910**
Bars—Cold finished	—	1,196	2,512	28,452	19	2	454	66	31,616	26,898	3,964	21	**95,200**
Tool steel	—	74	20	1,969	—	74	120	16	7,050	2,873	796	4	**12,996**
Standard pipe	33	5,716	12,995	6,698	140	707	—	—	8,443	6,963	4,209	15	**45,919**
Oil country goods	24	100	1,119	29,168	7,231	1,853	485	82	33,498	1,334	76	76	**75,136**
Line pipe	156	177	247	27,571	7,276	9,866	47	—	11,585	1,469	458	—	**58,852**
Mechanical tubing	273	2,702	7,089	22,726	403	316	24	837	33,032	10,916	987	33	**79,338**
Pressure tubing	—	—	134	185	—	1	—	36	2,159	1,599	565	—	**4,679**
Stainless pipe & tubing	18	348	2,253	716	92	—	7	—	1,207	968	40	—	**5,649**
Pipe & tubing nonclassified	3	9	101	694	278	420	—	7	9,041	283	169	—	**11,005**
Structural pipe & tube, sq. & rect	86	7,428	5,756	45,538	2,236	952	21	111	80,579	2,308	22	—	**145,037**
Wire drawn	4,033	28,512	42,747	64,440	74	27	1,131	1,517	73,767	47,586	9,036	1,709	**274,579**
Wire nails	4,266	11,113	19,156	12,016	27	120	742	100	19,110	14,987	540	39	**82,216**
Barbed wire	—	—	9	30	—	—	—	—	15	—	—	—	**54**
Galvanized wire fencing	2	—	3,341	519	—	11	251	—	960	19	—	40	**5,143**
Bale ties & baling wire	—	2	—	21	—	—	—	—	15	—	—	—	**38**
Black plate	—	—	82	4,386	—	—	—	—	11,455	14,457	18,015	—	**48,395**
Tin plate	—	—	—	30,327	—	—	—	92	23,816	37,296	11,190	—	**102,721**
Tin free steel	—	—	—	2,001	—	—	—	—	2,573	15,970	1,089	—	**21,633**
Sheets—Hot rolled	7	6,372	5,777	84,251	2,107	8,076	17,564	10,912	441,109	251,308	172,644	12,529	**1,012,656**
—Cold rolled	—	24,154	14,516	54,246	—	70	22,562	3,747	260,971	356,212	94,837	19,302	**850,617**
Sheets galvanized	39	442	601	66,494	125	8	6,793	359	433,900	104,609	56,794	4,545	**674,709**
All other metallic coated	10	484	3,634	334	—	1,442	991	—	14,265	12,649	7,430	—	**41,239**
Electric sheets & strip	—	3	—	3,030	—	—	—	—	9,626	13,281	2,683	238	**28,861**
Strip—Hot rolled	—	738	1,475	6,109	—	—	—	—	5,386	130	—	—	**13,838**
—Cold rolled	—	77	4,092	23,241	6	—	106	84	19,164	6,224	3,122	111	**56,227**
Total Steel Mill Products	**12,958**	**133,239**	**264,427**	**1,035,230**	**24,003**	**65,576**	**59,585**	**36,636**	**2,562,812**	**1,308,791**	**777,151**	**45,078**	**6,325,483**
Carbon	12,941	132,670	256,890	977,092	23,411	62,347	59,001	30,939	2,394,330	1,199,714	718,203	44,332	**5,911,870**
Alloy	—	150	1,510	47,180	465	3,228	387	5,473	161,405	77,401	56,295	527	**354,021**
Stainless	18	419	6,027	10,959	127	1	197	224	7,077	31,676	2,653	219	**59,597**

Table 23A

Imports of Iron and Steel Products by Customs District—1986

(Net tons)

Products	Grand Total	ATLANTIC COAST											
		Boston	Providnce Brdgport	New York City	Phila.	Baltimore/ Wash., DC	Norfolk	Wil- mington	Charles- ton	Savannah	Tampa	Miami	Total
Other Steel Products													
Structural shapes, fabricated	424,966	317	6,577	4,911	1,067	1,708	572	6,288	130	8,888	14,265	595	45,318
Shapes—Cold formed	2,178	150	22	19	—	10	1	—	60	12	125	—	399
Sashes and frames	4,394	2	—	357	13	68	6	48	227	67	22	120	930
Fence or sign posts	4,930	37	—	107	—	103	—	—	—	—	—	—	247
Wire—Nonmetallic covered	1,451	3	4	454	26	105	21	9	41	35	2	—	700
Wire rope	129,449	3,124	114	7,672	992	7,065	6,006	7,095	9,909	4,294	3,178	755	50,204
Wire strand	177,225	705	—	19,244	2,418	10,518	7,699	529	11,309	13,938	4,931	10,347	81,638
Welded wire fabric	51,699	42	20	3,153	133	235	116	623	980	1,780	834	9,670	17,586
Other nails and staples	45,437	960	221	3,152	542	797	406	4,382	1,665	2,862	4,051	524	19,562
Bale ties—Strip	615	—	—	—	—	—	—	—	—	—	—	—	—
Bolts, nuts and rivets	638,325	11,105	1,520	77,805	15,651	39,932	6,288	4,375	4,826	29,015	7,440	4,365	202,322
Grinding balls	4,134	117	—	29	72	6	33	—	1	—	22	—	280
Blanks, nontectangular flat rolled	47,822	50	—	2,907	1,323	3,853	1,076	—	32	19	52	—	9,312
Conduit	22,871	—	—	140	654	—	772	1	—	—	11	1	1,579
Pipe and tube fittings	106,848	2,614	38	7,045	3,373	2,066	1,042	524	1,943	5,689	3,888	190	28,412
Total Other Steel Products	1,662,344	19,225	8,516	126,996	26,265	66,467	24,037	23,875	31,124	66,600	38,821	26,567	458,489
Total Steel Products	22,354,660	49,553	1,060,413	579,806	1,247,583	396,975	286,701	284,861	179,408	515,692	404,836	230,895	5,236,722
Iron Products & Ferroalloys													
Bar iron, iron slabs & blooms, etc.	127	—	—	5	96	—	—	—	—	6	—	—	107
Cast iron soil and pipe and fittings	5,297	465	—	552	103	—	—	—	—	567	34	—	1,721
Other cast iron pipe and fittings	16,634	845	—	2,087	1,934	304	179	—	76	1,746	377	107	7,655
Malleable cast iron pipe fittings	20,965	231	—	4,496	1,583	921	54	36	8	671	815	146	8,961
Castings and forgings	200,631	4,475	598	34,384	4,964	13,670	10,416	5,607	3,899	8,303	937	925	88,178
Pig iron	294,967	—	1,592	151	11,956	2	—	—	—	12,349	—	—	26,050
Sponge iron	97,585	392	—	782	9,731	17,590	—	—	10	11	—	2	28,518
Ferromanganese (manganese content)	388,093	—	551	—	24,790	42,155	—	—	11,351	—	—	—	78,847
Ferrosilicon (silicon content)	218,576	—	—	86	—	7,876	494	283	4,110	1,520	—	—	14,369
Ferrochromium (chromium content)	387,867	—	21,390	120	2,077	27,926	—	—	—	—	—	—	51,513
Other Ferroalloys	252,399	—	—	203	4,117	66,737	20	—	1,402	—	7,579	—	80,058
Total Iron Products & Ferroalloys	1,883,140	6,408	24,130	42,867	61,352	177,179	11,163	5,926	20,856	25,172	9,743	1,180	385,977
Grand Total	24,237,800	55,961	1,084,543	622,673	1,308,935	574,154	297,864	290,787	200,264	540,864	414,579	232,075	5,622,699
Iron and steel scrap	723,562	—	—	17,951	5,563	94	—	—	155	—	9,175	1,011	33,949

Table 23A *(continued)*

Imports of Iron and Steel Products by Customs District—1986

(Net tons)

Products	GULF COAST-MEXICAN BORDER							
	Mobile	New Orleans	Port Arthur	Houston	Dallas	Laredo	El Paso Nogales	Total
Other Steel Products								
Structural shapes, fabricated	1,102	33,315	—	33,749	21	1,260	350	69,797
Shapes—Cold formed	—	—	—	—	4	—	—	4
Sashes and frames	3	2	—	7	—	35	75	122
Fence or sign posts	—	71	—	71	—	1,609	—	1,751
Wire—Nonmetallic covered	21	105	—	49	—	20	—	195
Wire rope	3,177	23,036	—	20,829	92	1,269	28	48,431
Wire strand	4,928	10,362	—	41,921	—	183	—	57,394
Welded wire fabric	—	348	—	1,808	224	3,602	21	6,003
Other nails and staples	121	5,329	—	3,958	148	366	4	9,946
Bale ties—Strip	—	—	—	—	—	—	—	—
Bolts, nuts and rivets	7,343	13,882	—	33,074	2,917	1,811	107	59,134
Grinding balls	—	—	—	—	—	22	—	22
Blanks, nonrectangular flat rolled	15	24,221	—	3,632	—	651	—	28,519
Conduit	16,623	81	—	200	—	—	—	16,904
Pipe and tube fittings	1,698	10,294	—	32,533	389	663	9	45,586
Total Other Steel Products	35,032	121,044	—	171,832	3,795	11,510	594	343,808
Total Steel Products	524,078	1,990,906	87,432	2,344,694	31,897	338,964	11,467	5,329,432
Iron Products & Ferroalloys								
Bar iron, iron slabs & blooms, etc.	—	—	—	—	—	—	—	—
Cast iron soil pipe and fittings	—	130	—	45	18	—	—	193
Other cast iron pipe and fittings	—	66	—	1,394	1	22	—	1,483
Malleable cast iron pipe fittings	1	408	—	1,121	375	413	—	2,318
Castings and forgings	411	6,636	—	28,883	433	1,740	2,794	40,897
Pig iron	—	149,910	—	—	—	4,103	—	154,013
Sponge iron	—	—	—	—	—	—	—	—
Ferromanganese (manganese content)	21,488	231,027	—	—	—	5	—	252,520
Ferrosilicon (silicon content)	4,030	144,759	—	2,636	—	22	—	151,447
Ferrochromium (chromium content)	19	324,084	—	19	—	—	—	324,122
Other Ferroalloys	15,581	126,256	—	2,262	—	506	3	144,608
Total Iron Products & Ferroalloys	41,530	983,276	—	36,360	827	6,811	2,797	1,071,601
Grand Total	565,608	2,974,182	87,432	2,381,054	32,724	345,775	14,264	6,401,033
Iron and steel scrap	—	35,739	62	1,438	—	57,658	18,587	113,484

Table 23A *(continued)*

Imports of Iron and Steel Products by Customs District—1986

(Net Tons)

Products	PACIFIC COAST						OFF SHORE				
	San Diego	Los Angeles	San Francisco	Columbia-Snake	Seattle	Total	Virgin Islands	Anch-orage	Hono-lulu	San Juan	Total
Other Steel Products											
Structural shapes, fabricated	160	26,723	10,221	11,241	34,455	**82,800**		82,875	1,325	1,849	**86,049**
Shapes—Cold formed	—	20	2	—	139	**161**	—	—	—	—	—
Sashes and frames	1	70	51	—	395	**517**	3	2	--	1	**6**
Fence or sign posts	2,528	210	—	—	—	**2,738**	—	—	—	56	**56**
Wire—Nonmetallic covered	—	248	9	13	45	**315**	—	1	—	4	**5**
Wire rope	424	4,176	3,480	5,657	9,324	**23,061**	—	8	184	85	**277**
Wire strand	5	6,990	8,126	1,495	10,325	**26,941**	—	1	946	1,622	**2,569**
Welded wire fabric	1,350	3,836	269	38	8,678	**14,171**	93	—	412	2,233	**2,738**
Other nails and staples	—	7,703	1,794	206	1,482	**11,185**	—	—	25	491	**516**
Bale ties—Strip	—	615	—	—	—	**615**	—	—			
Bolts, nuts and rivets	541	132,799	14,242	16,717	53,697	**217,996**	—	23	116	694	**833**
Grinding balls	—	690	—	—	44	**734**	—	—	—	247	**247**
Blanks, nonrectangular flat rolled	1	1,333	472	—	5	**1,811**	1,596	—	—	356	**1,952**
Conduit	284	1,537	310	159	68	**2,358**	—	—	—	780	**780**
Pipe and tube fittings	11	14,367	1,975	2,245	1,638	**20,236**	—	40	40	143	**223**
Total Other Steel Products	**5,305**	**201,316**	**40,951**	**37,770**	**120,295**	**405,639**	**1,692**	**82,950**	**3,049**	**8,561**	**96,251**
Total Steel Products	**28,395**	**2,801,398**	**811,412**	**437,354**	**475,879**	**4,554,440**	**4,131**	**170,512**	**27,023**	**348,753**	**550,415**
Iron Products & Ferroalloys											
Bar iron, iron slabs & blooms, etc	—	—	—	—	—	—	—	—			
Cast iron soil pipe and fittings	—	2,402	57	—	38	**2,497**		—	—		—
Other cast iron pipe and fittings	314	3,973	463	93	292	**5,135**	—	—	—	16	**16**
Malleable cast iron pipe fittings	—	6,658	710	368	27	**7,763**	—	—	—	145	**145**
Castings and forgings	7,040	10,951	6,617	986	6,589	**32,183**	--	—	10	437	**447**
Pig iron	—	9,209	—	—	7,280	**16,489**	—		—	—	—
Sponge iron	—	425	3	—	25	**453**	—	—	—	—	—
Ferromanganese (manganese content)	—	—	—	5,309	551	**5,860**	—	—	—	—	—
Ferrosilicon (silicon content)	—	569	364	339	400	**1,672**	—	—	—	—	—
Ferrochromium (chromium content)	6	272	19	138	—	**435**	—	—	—	—	—
Other Ferroalloys	—	9,832	4,494	4,798	5,051	**24,175**	—	—	—	—	—
Total Iron Products & Ferroalloys	**7,360**	**44,290**	**12,728**	**12,031**	**20,252**	**96,662**	--	—	**10**	**598**	**608**
Grand Total	**35,755**	**2,845,688**	**824,140**	**449,385**	**496,131**	**4,651,102**	**4,131**	**170,512**	**27,033**	**349,351**	**551,023**
Iron and steel scrap	3,770	664	1	—	144,254	**148,689**	--	—	525	174	**699**

Table 23A *(continued)*

Imports of Iron and Steel Products by Customs District—1986

(Net Tons)

Products	GREAT LAKES-CANADIAN BORDER												
	Portland	St. Albans	Ogdensburg	Buffalo	Great Falls	Pembina	Duluth Mineapls	Milwaukee	Detroit	Chicago	Cleveland	St. Louis	Total
Other Steel Products													
Structural shapes, fabricated	27,126	5,147	13,869	72,935	2,021	874	504	1	15,738	787	969	1,028	140,999
Shapes—Cold formed	—	—	24	1,200	—	—	—	—	390	—	—	—	1,614
Sashes and frames	2	270	69	909	634	207	43	2	502	154	30	—	2,822
Fence or sign posts	7	—	34	7	—	—	61	—	11	20	—	—	140
Wire—Nonmetallic covered	—	7	2	7	3	27	5	—	23	147	5	8	234
Wire rope	20	115	178	1,048	99	43	11	—	404	3,731	69	1,758	7,476
Wire strand	—	20	683	276	—	22	199	—	164	7,101	180	38	8,683
Welded wire fabric	—	4,525	1,792	3,207	8	—	146	48	990	246	200	40	11,202
Other nails and staples	14	34	682	944	1	8	6	44	227	1,685	164	419	4,228
Bale ties—Strip	—	—	—	—	—	—	—	—	—	—	—	—	—
Bolts, nuts and rivets	78	1,780	20,280	15,761	143	189	1,496	667	42,438	65,150	7,620	2,439	158,041
Grinding balls	—	—	36	1,596	—	—	—	—	1,152	59	9	—	2,852
Blanks, nonrectangular flat rolled	25	89	17	117	2	—	—	—	1,591	3,544	843	—	6,228
Conduit	11	6	20	9	—	—	—	—	115	1,075	13	—	1,249
Pipe and tube fittings	208	166	884	839	203	44	146	1	1,485	8,003	314	96	12,389
Total Other Steel Products	**27,491**	**12,160**	**38,567**	**98,855**	**3,115**	**1,415**	**2,618**	**764**	**65,229**	**91,699**	**10,415**	**5,826**	**358,157**
Total Steel Products	**40,449**	**145,399**	**302,994**	**1,134,085**	**27,118**	**66,991**	**62,203**	**37,400**	**2,628,041**	**1,400,490**	**787,566**	**50,904**	**6,683,640**
Iron Products & Ferroalloys													
Bar iron, iron slabs & blooms, etc.	—	—	—	—	—	—	—	—	—	20	—	—	20
Cast iron soil pipe and fittings	—	—	—	502	—	—	—	—	372	—	—	13	887
Other cast iron pipe and fittings	41	8	179	298	4	—	11	—	199	1,041	558	5	2,344
Malleable cast iron pipe fittings	—	—	17	304	50	—	—	3	132	736	313	224	1,779
Castings and forgings	142	3,177	5,008	6,471	1,371	—	92	128	11,138	10,091	1,135	175	38,928
Pig iron	—	799	3,173	254	—	—	—	43,072	16,992	3,948	30,178	—	98,416
Sponge iron	21	1,524	12,223	12,614	3	—	6	1	19,581	343	22,298	—	68,614
Ferromanganese (manganese content)	—	—	106	1,466	—	—	—	—	11,254	18,311	19,727	—	50,864
Ferrosilicon (silicon content)	—	—	1,100	22,393	—	11,134	—	289	5,269	5,352	5,550	—	51,087
Ferrochromium (chromium content)	—	—	—	679	—	—	—	—	—	19	11,097	—	11,795
Other Ferroalloys	—	3	493	1,593	—	—	—	14	975	57	422	—	3,557
Total Iron Products & Ferroalloys	**205**	**5,510**	**22,299**	**46,575**	**1,428**	**11,134**	**108**	**43,506**	**65,912**	**39,919**	**91,279**	**417**	**328,291**
Grand Total	**40,654**	**150,909**	**325,293**	**1,180,660**	**28,546**	**78,125**	**62,311**	**80,906**	**2,693,953**	**1,440,409**	**878,845**	**51,321**	**7,011,931**
Iron and steel scrap	18	321	10,246	43,714	118	113	443	329	349,793	12	21,634	—	426,741

RAW STEEL PRODUCTION

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book

Table 24

Raw Steel Production by Type of Furnace, Grade and Cast

(Thousands of net tons)

	Open Hearth			Basic Oxygen Process			Electric			
Year	Carbon	Alloy	Total	Carbon	Alloy	Total	Carbon	Alloy	Stainless	Total
1986	3,170	160	3,330	44,366	3,520	47,885	23,877	4,825	1,689	30,390
1985	6,005	423	6,428	47,688	4,197	51,885	23,006	5,257	1,683	29,946
1984	7,928	408	8,336	48,399	4,423	52,822	23,591	6,006	1,772	31,369
1983	5,703	248	5,951	48,115	3,934	52,050	19,965	4,900	1,750	26,615
1982	5,642	468	6,110	41,214	4,095	45,309	17,287	4,635	1,235	23,158
1981	12,195	1,257	13,452	65,701	7,530	73,231	23,566	8,836	1,743	34,145
1980	11,844	1,210	13,054	60,532	7,083	67,615	22,313	7,152	1,701	31,166
1979	17,200	1,958	19,158	75,334	7,922	83,256	23,692	8,128	2,107	33,927
1978	19,026	2,284	21,310	75,053	8,431	83,484	22,837	7,446	1,954	32,237
1977	18,045	1,998	20,043	70,551	6,857	77,408	19,534	6,486	1,862	27,882

Table 24 *(continued)*

Raw Steel Production by Type of Furnace, Grade and Cast

(Thousands of net tons)

	Total All Grades				Per Cent of Total						Production by Type of Cast (Thousands of net tons)		
					By Grade			By Type of Furnace					
	Carbon	Alloy	Stainless	Total	Carbon	Alloy	Stain-less	OH	BOP	Elec-tric	Ingots	Cont. Cast	Steel Cast
1986	71,413	8,505	1,689	81,606	87.5	10.4	2.1	4.1	58.7	37.2	36,487	45,064	55
1985	76,699	9,877	1,683	88,259	86.9	11.2	1.9	7.3	58.8	33.9	49,035	39,161	63
1984	79,918	10,838	1,772	92,528	86.4	11.7	1.9	9.0	57.1	33.9	55,787	36,669	74
1983	73,783	9,082	1,750	84,615	87.2	10.7	2.1	7.0	61.5	31.5	57,385	27,174	56
1982	64,143	9,198	1,235	74,577	86.0	12.3	1.7	8.2	60.7	31.1	52,875	21,628	74
1981	101,462	17,623	1,743	120,828	84.0	14.6	1.4	11.1	60.6	28.3	94,516	26,138	173
1980	94,689	15,445	1,701	111,835	84.7	13.8	1.5	11.7	60.4	27.9	88,937	22,720	178
1979	116,226	18,008	2,107	136,341	85.3	13.2	1.5	14.0	61.1	24.9	113,084	23,043	215
1978	116,916	18,161	1,954	137,031	85.3	13.3	1.4	15.6	60.9	23.5	115,984	20,837	210
1977	108,130	15,341	1,862	125,333	86.3	12.2	1.5	16.0	61.8	22.2	109,416	15,728	188

Table 25

Raw Steel Production by States

(Thousands of net tons)

States	1986	1985	1984	1983	1982
New York	541	456	515	1,305	1,419
Pennsylvania	9,492	12,034	14,372	13,000	10,905
R.I., Conn., N.J., Del., Md.	4,589	4,610	5,134	3,985	4,063
Va., W. Va., Ga., Fla., N.C., S.C., La.	6,641	6,301	6,320	5,277	4,921
Ala., Tenn., Ky., Miss., Ark.	5,333	6,031	4,914	3,311	2,928
Ohio	14,522	14,094	15,438	14,586	12,181
Indiana	16,837	19,687	19,793	20,202	16,499
Illinois	6,414	6,479	6,504	5,410	5,091
Michigan	7,475	7,297	7,754	7,262	6,075
Texas	3,739	4,656	4,790	3,846	4,822
Minn., Mo., Okla., Nebr., Iowa	2,445	2,104	2,416	2,137	1,321
Ariz., Col., Utah, Wash., Ore., Ca., Hawaii	3,580	4,510	4,578	4,293	4,352
Total	**81,606**	**88,259**	**92,528**	**84,615**	**74,577**

Table 26

Monthly and Quarterly Raw Steel Production and Capability Utilization

(Thousands of net tons)

Periods	1986 Net Tons	1986 Capability Utilization* %	1985 Net Tons	1985 Capability Utilization* %	1984 Net Tons	1984 Capability Utilization* %	1983 Net Tons	1983 Capability Utilization* %	1982 Net Tons	1982 Capability Utilization* %
January	7,666	69.4	6,984	60.9	7,970	69.6	5,570	43.4	7,737	59.3
February	7,171	71.8	6,851	66.1	8,142	76.0	5,676	49.0	7,178	60.9
March	7,947	71.9	8,269	72.1	9,056	79.1	7,127	55.5	8,049	61.7
1st Quarter	22,808	71.5	22,083	66.3	25,057	74.6	18,382	49.3	22,970	60.7
April	7,787	73.5	7,872	71.6	8,997	80.8	7,292	58.9	7,006	55.2
May	7,616	69.5	7,830	68.9	9,174	79.8	7,412	57.9	6,678	50.9
June	6,730	63.5	7,292	66.3	7,945	71.4	6,993	56.5	6,050	47.7
2nd Quarter	22,133	68.8	22,993	68.9	26,116	77.4	21,726	57.8	19,711	51.2
First 6 months	44,966	70.0	45,110	67.7	51,354	76.2	40,109	53.6	42,681	55.9
July	6,352	59.2	7,010	62.1	7,460	65.3	6,921	54.3	5,719	43.8
August	5,668	52.8	7,130	63.2	6,915	60.5	7,020	55.1	5,538	42.4
September	5,644	54.3	6,924	63.4	6,378	57.7	7,134	57.8	5,299	41.9
3rd Quarter	17,665	55.4	21,064	62.9	20,752	61.2	21,076	55.7	16,555	42.7
9 months	62,603	65.1	66,164	66.1	72,054	71.1	61,386	54.5	58,367	50.7
October	6,087	56.8	7,351	65.2	6,703	58.4	7,692	60.2	5,262	40.2
November	5,860	56.5	7,051	64.7	6,422	57.8	7,263	58.7	4,546	35.9
December	5,877	54.9	6,728	59.7	6,013	52.4	6,991	54.7	4,456	34.0
4th Quarter	17,824	56.1	21,130	63.2	19,137	56.2	21,946	57.9	14,264	36.7
Second 6 Months	35,489	55.8	42,193	63.0	39,890	58.7	43,022	56.8	30,820	39.7
Year †	**81,606**	**63.8**	**88,259**	**66.1**	**92,528**	**68.4**	**84,615**	**56.2**	**74,577**	**48.4**

*Raw steel production capability varies in each calendar quarter and aggregated 154.0, 150.6, 135.3, 133.6, and 127.9 million net tons for the full years 1982, 1983, 1984, 1985 and 1986 respectively.

†Revised totals include adjustments not shown in monthly figures.

BASIC MATERIALS USED IN THE PRODUCTION OF IRON AND STEEL PRODUCTS

Table 27

Pig Iron Production, Consumption and Sales

(Thousands of Net tons)

Year	Total Blast Furnace Production	Consumption		Outside Sales
		Steelmaking	Other than Steelmaking*	
1986	43,952	43,312	357	283
1985	50,446	49,547	619	435
1984	51,904	45,282	1,499	792
1983	48,706	45,783	868	658
1982	43,309	42,013	777	568
1981	73,570	70,858	3,055	1,228
1980	68,721	66,111	2,794	1,206
1979	87,003	83,307	3,984	1,855
1978	87,679	83,571	4,148	2,099
1977	81,328	77,141	3,711	2,106

*Includes sales for use outside the steel industry.

Table 28

Imports of Iron Ore By Countries of Origin

(Thousands of gross tons)

Country	1986[P]	1985	1984	1983	1982
Brazil	3,693	2,540	2,542	1,276	972
Canada	8,651	8,557	11,161	8,832	9,281
Liberia	1,420	2,128	1,745	1,732	2,399
Venezuela	2,392	2,283	1,588	1,333	1,643
Other	593	457	124	73	206
Total	**16,749**	**15,965**	**17,160**	**13,246**	**14,501**

Source: Bureau of Mines

Table 29

*Imports for Consumption of Manganese Ore by Countries of Origin (35 Percent or More Mn)**

(MN content—Net tons)

Country	1986	1985	1984	1983	1982
Australia	35,539	43,104	21,005	15,118	18,842
Brazil	44,561	59,816	34,748	39,112	2,962
Gabon	131,874	64,093	66,135	85,509	23,156
Mexico	14,770	23,222	16,428	25,598	1,492
Republic of South Africa	13,994		17,286	12,703	57,872
Other Countries	3,515	55	40	20	6,730
Total	**244,252**	**190,290**	**155,642**	**178,060**	**111,054**

*Comprises ore received during the year for immediate consumption plus material withdrawn from bonded warehouses; excludes imports for manufacture in bond and export.

Data may not add due to rounding.

Source: Bureau of Mines, Department of Interior

Table 30

Consumption of Coal

(Thousands of net tons)

Year	In Production of		Other Purposes	Total
	Coke	Steam*		
1986	28,836	2,206	240	31,282
1985	34,266	2,288	207	36,761
1984	35,815	2,368	212	38,395
1983	30,549	2,280	153	32,982
1982	34,130	2,297	179	36,606

*Includes coal consumed in generating electric power.

Table 31

Consumption of Fluxes in Steelmaking

(Thousands of net tons)

Use	Fluorspar	Limestone	Lime	Other Fluxes	Total
1986					
In steelmaking furnaces					
Open hearth	11	96	20	137	264
Basic oxygen process	94	535	2,968	446	4,043
Electric	41	178	937	262	1,418
Total	**146**	**809**	**3,925**	**845**	**5,725**
1985	388	760	4,611	778	6,537
1984	250	920	4,158	793	6,121
1983	194	730	4,336	652	5,912
1982	268	578	4,189	520	5,555

Table 32

Production, Receipts, Consumption and Shipments of Coke

(Thousands of net tons)

	1986	1985	1984	1983	1982
Production:					
Metallurgical	20,527	23,708	25,271	22,466	24,518
Other Coke	184	240	386	244	227
Total Production	20,711	23,948	25,657	22,710	24,745
Receipts, incl. imports	4,005	5,009	5,163	4,161	2,704
Total Production and Receipts	**24,716**	**28,957**	**30,820**	**26,871**	**27,449**
Consumption:					
Blast furnaces	22,332	25,624	27,394	26,268	23,322
Foundries & Other	256	372	192	147	122
Total Consumption	22,588	25,996	27,586	26,415	23,444
Shipments to outside companies	955	2,012	2,280	3,038	1,042
Total Consumption and Shipments	**23,543**	**28,008**	**29,866**	**29,453**	**24,486**

Table 33

Consumption of Ore and Agglomerated Products

(Thousands of net tons)

	1986	1985	1984	1983	1982
Consumed In					
Blast Furnaces:					
Natural Ore	2,087	3,201	N.A.	N.A.	N.A.
Pellets	48,072	56,987	58,749	54,297	47,760
Sinter, briquettes, nodules and other	14,574	17,838	18,907	18,327	17,638
Total	**64,733**	**78,026**	**77,656**	**72,624**	**65,398**
Steelmaking Furnaces--					
Natural Ore	72	99	N.A.	N.A.	N.A.
Pellets	34	68	56	45	115
Sinter, briquettes, nodules and other	28	90	37	14	4
Total	**134**	**257**	**93**	**59**	**119**
Total Consumption	**64,867**	**78,283**	**77,749**	**72,683**	**65,517**

Table 34

Scrap Consumption by Grade

(Thousands of net tons)

	1986[P]	1985[R]	1984	1983	1982
Carbon steel:					
Low phosphorous plate and punching	365	336	324	318	263
Cut structurals and plate	1,348	1,523	1,375	1,433	1,328
No. 1 heavy melting steel	14,414	16,941	17,091	15,871	13,895
No. 2 heavy melting steel	3,539	3,604	2,665	2,674	2,252
No. 1 and electric furnace bundles	6,883	7,072	8,111	7,648	5,932
No. 2 and all other bundles	888	1,105	1,060	1,003	1,072
Turnings and borings	998	1,069	954	844	995
Slag scrap (Fe content)	2,100	2,815	3,276	3,072	2,913
Shredded or fragmentized	4,272	4,043	3,134	2,280	2,126
No. 1 busheling	1,575	1,466	1,408	1,299	986
All other carbon steel scrap	8,782	8,468	7,415	7,442	6,987
Total Carbon Steel	45,164	48,442	46,813	43,884	38,749
Stainless steel	1,003	1,000	1,009	973	746
Alloy steel (excl. stainless)	1,147	1,256	1,315	1,131	1,030
Iron scrap	1,084	1,443	1,594	1,784	1,349
Other grades or types of scrap	1,036	1,059	1,055	1,225	1,825
Total scrap	**49,434**	**53,201**	**51,786**	**48,996**	**43,698**

Source: Bureau of Mines.
Data may not add to totals due to rounding.

Table 35

Consumption of Scrap and Pig Iron By Types of Furnaces

(Thousands of net tons)

Year	Type of Furnace	Consumed			Scrap Stocks on Hand Year End
		Scrap	Pig Iron	Total	
1986[p]	Open hearth	1,319	2,583	3,902	
	Basic oxygen process	13,257	37,334	50,591	
	Electric	32,197	127	32,324	
	Cupola	34	80	114	
	Direct castings	—	297	297	
	Blast	2,172	—	2,172	
	Other (incl. air furnace)	455	37	492	
		49,434	**40,458**	**89,692**	**3,379**
1985[p]	Open hearth	2,411	4,737	7,148	
	Basic oxygen process	15,339	44,515	59,854	
	Electric	32,252	5	32,257	
	Cupola	20	73	93	
	Direct castings	—	468	468	
	Blast	2,481	—	2,481	
	Other (incl. air furnace)	698	37	735	
	Total	**53,201**	**49,833**	**103,034**	**3,964**
1984	Open hearth	3,724	5,718	9,442	
	Basic oxygen process	16,447	45,551	61,998	
	Electric	28,244	22	28,266	
	Cupola	50	120	170	
	Direct castings	—	482	482	
	Blast	2,724	—	2,724	
	Other (incl. air furnace)	597	76	673	
	Total	**51,786**	**51,969**	**103,755**	**4,448**
1983	Open hearth	3,275	3,918	7,193	
	Basic oxygen process	16,219	44,330	60,549	
	Electric	25,786	52	25,838	
	Cupola	6	100	106	
	Direct castings	—	519	519	
	Blast	3,125	—	3,125	
	Other (incl. air furnace)	585	72	657	
	Total	**48,996**	**48,991**	**97,987**	**4,953**
1982	Open hearth	3,554	3,632	7,186	
	Basic oxygen process	14,059	38,553	52,612	
	Electric	22,766	210	22,976	
	Cupola	37	128	165	
	Direct castings	—	647	647	
	Blast	2,648	—	2,648	
	Other (incl. air furnace)	634	111	745	
	Total	**43,698**	**43,281**	**86,979**	**5,807**

Source: Bureau of Mines.

Table 36

Consumption of Electric Power

(Millions of kilowatt hours)

Year	Generated	Purchased	Total
1986	7,910	41,254	49,164
1985	8,820	44,060	52,880
1984	6,763	49,314	56,077
1983	5,922	36,473	42,395
1982	6,664	34,103	40,767

Table 37

Consumption of Oxygen

(Millions of cubic feet in gaseous form)

	1986	1985	1984	1983	1982
Purchased	136,881	146,148	162,388	145,325	132,659
Produced (a)	16,744	17,341	14,049	12,415	13,686
Total	153,625	163,489	176,437	157,740	146,345
Used in					
Conditioning	5,407	7,212	9,020	9,064	8,106
Scrap preparation	685	733	1,013	930	922
Other burning and welding	3,182	4,292	4,542	3,146	3,065
Blast furnaces	22,077	18,031	24,271	16,223	16,057
Steelmaking					
Open hearth	5,633	10,795	15,869	8,566	9,478
Basic oxygen process	94,168	100,721	101,921	99,608	89,809
Electric	16,226	14,702	12,323	9,682	8,453
Total Steelmaking	116,027	126,218	130,113	117,856	107,740
Maintenance and construction	311	357	609	1,098	1,236
All other	5,936	6,646	6,869	9,423	9,219
Total	**153,625**	**163,489**	**176,437**	**157,740**	**146,345**

(a) Produced on companies owned or leased facilities.
NOTE. Oxygen consumed in liquid form was converted to its gaseous equivalent in these statistics.

Table 38

Consumption of Fuels

Year	Purpose					
	Blast Furnace Area					
	Blast Furnaces	Other Uses*	Steel Melting Furnaces	Heating and Annealing Furnaces	Other	Total
			Fuel Oil (Thousand of gallons)			
1986	149,364	3,975	23,081	52,687	76,668	**305,775**
1985	99,674	3,583	48,390	29,125	52,625	**233,397**
1984	131,437	6,982	54,339	56,379	72,763	**321,900**
1983	123,709	16,212	64,081	84,436	142,637	**431,075**
1982	111,971	9,509	59,484	94,393	99,122	**374,479**
			Tar and Pitch (Thousands of gallons)			
1986	5,248					**5,248**
1985	7,960		7,098			**15,058**
1984	8,952		15,690			**24,642**
1983	7,243		11,831		969	**20,043**
1982	21,317		19,758		3,485	**44,560**
			Liquid Petroleum Gas (Thousands of gallons)			
1986	†	†	†	†	1,187	**1,187**
1985	†	†	†	†	1,043	**1,043**
1984	†	†	†	355	1,496	**1,851**
1983	†	†	†	558	1,624	**2,182**
1982	†	†	†	1,300	3,096	**4,396**

* Includes coke oven underfiring.

† Included with "Other."

Table 38 *(continued)*
Consumption of Fuels

Year	Purpose					
	Blast Furnace Area					
	Blast Furnaces	Other Uses*	Steel Melting Furnaces	Heating and Annealing Furnaces	Other	Total
	Natural Gas (Millions of cubic feet—based on 1,000 B.T.U. per cubic foot)					
1986	23,650	5,991	15,182	175,295	88,793	**308,911**
1985	25,621	6,812	18,250	197,823	99,269	**347,775**
1984	29,235	10,542	20,688	228,082	102,676	**391,223**
1983	19,061	14,700	19,310	216,262	109,718	**379,051**
1982	19,160	22,150	20,530	219,371	130,134	**411,345**
	Coke Oven Gas (Millions of cubic feet—based on 500 B.T.U. per cubic foot)					
1986	16,705	131,828	1,896	86,945	74,741	**312,115**
1985	18,687	151,437	485	100,892	101,699	**373,200**
1984	17,185	163,465	1,897	105,554	105,461	**393,562**
1983	8,463	150,466	28	103,950	75,972	**338,879**
1982	7,106	168,798	1,796	123,357	109,613	**410,670**
	Blast Furnace Gas (Millions of cubic feet—based on 95 B.T.U. per cubic foot)					
1986	585,703	334,935	887	30,787	902,156	**1,854,468**
1985	815,434	610,696	1,298	37,827	877,346	**2,342,601**
1984	873,752	674,791	1,386	41,243	793,539	**2,384,711**
1983	844,815	602,573	1,386	25,139	720,452	**2,194,365**
1982	796,165	576,485	6,173	32,651	724,956	**2,136,430**

* Includes 200,911 coke oven underfiring in 1981, 128,211 in 1982, 110,782 in 1983, 130,211 in 1984, and 117,074 in 1985.

* Includes coke oven underfiring.

CANADIAN STATISTICS

Table 39

Income, Dividends, Return on Sales and Stockholders' Equity

(Millions of Canadian dollars)

(Reported by companies comprising 76% of Canadian Raw Steel Production)

	1986[P]	1985[R]	1984	1983	1982
Statement of Income					
Revenues					
Sales (Net billing value of products shipped and other services)	$5,642.4	$5,909.4	$5,723.1	$4,691.3	$4,671.7
Interest, dividends and other income	75.0	70.1	49.1	11.6	25.8
Total Revenue	**5,717.4**	**5,979.5**	**5,772.2**	**4,702.8**	**4,697.5**
Costs Applied to Billings and Other Services					
Employment costs	1,355.0	1,468.8	1,431.1	1,259.3	1,259.2
Materials, supplies, freight and other services,etc.	3,691.6	3,691.6	3,591.3	3,058.5	3,110.6
Depreciation, depletion and amortization	275.5	264.9	268.1	245.5	242.7
Interest and other financial costs	176.9	165.0	171.6	172.6	153.0
Taxes other than income	27.1	25.2	22.3	21.6	31.1
Taxes on income	61.9	111.6	89.0	(41.8)	(81.7)
Loss or (gain) on discontinued operations and sales of assets (a)					5.5
Unusual items				4	
Total Costs	**5,588.1**	**5,727.1**	**5,573.4**	**4,716.1**	**4,720.4**
Extraordinary & other items net of taxes	(77.6)	(2.2)	(51.6)		
Net Income	**$ 51.7**	**$ 250.2**	**$147.2**	**$ (13.3)**	**$ (22.9)**
Percent Cent Return on Sales	0.9	4.2	2.6	(0.3)	(0.5)
Percent Return on Stockholders' Equity (b)	1.4	6.8	4.1	(0.4)	N.A.
Cash Dividends Declared	$ 184.0	$ 182.0	$ 155.7	$ 140.8	$ 162.9
Employees	39,900	43,800	44,400	42,300	N.A.

(a) Includes only pretax (gains) or losses which were seperately disclosed in annual financial statements to stockholders.
(b) Based on stockholders' equity as of Dec. 31 of the prior year.
Totals do not necessarily add due to rounding.

Table 40

Balance Sheet

(Millions of Canadian dollars)

(Reported by companies comprising 76% of Canadian Raw Steel Production)

Assets	1986[P]	1985[R]	1984	1983	1982
Current Assets					
Cash and marketable securities	$ 516.4	$ 755.1	$ 355.4	$ 458.3	$ 250.2
Receivables, less allowances	787.1	832.6	779.5	691.2	539.3
Inventories	1,618.6	1,807.0	1,778.5	1,528.5	1,595.0
Other Current Assets	14.1	18.0	11.5	13.6	12.0
Total Current Assets	**2,936.1**	**3,412.7**	**2,924.9**	**2,691.6**	**2,396.6**
Long term receivables and other investments	190.6	292.5	280.4	307.8	33.9
Fixed assets:					
Property, plant and equipment	7,995.1	7,264.4	6,802.1	6,733.2	6,651.9
Less—Depreciation, depletion and amortization	3,631.4	3,301.7	3,046.8	2,801.4	2,273.8
Net Fixed Assets	4,363.7	3,962.7	3,755.3	3,931.8	4,378.1
Other assets	81.9	105.4	81.3	13.4	14.7
Total Assets	**$7,572.3**	**$7,773.3**	**$7,041.8**	**$6,944.6**	**$6,823.3**
Liabilities and Stockholders' Equity					
Current Liabilities					
Accounts payable	$ 806.2	$ 862.4	$ 712.7	$ 677.6	*
Accrued taxes, including income taxes	83.3	69.9	128.2	97.6	$ 57.1
Long-term debt maturing within one year	66.7	46.1	43.3	33.7	29.1
All other current liabilities	37.5	92.3	34.1	181.8	627.2
Total Current Liabilities	**993.7**	**1,070.8**	**918.3**	**990.7**	**713.4**
Long-term debt less amount maturing within one year	1,586.6	1,666.7	1,526.1	1,447.9	1,478.4
Other long-term liabilities and reserves	931.8	886.4	832.6	860.7	924.5
Redeemable preferred stock	421.6	421.8	71.6	73.8	N.A.
Stockholders' Equity					
Preferred stock	713.6	718.2	801.8	806.4	941.4
Common stock	795.4	756.0	690.1	549.8	379.4
Income reinvested in business	2,129.6	2,253.5	2,201.3	2,215.3	2,386.2
Total Stockholders' Equity	**$3,638.6**	**$3,727.6**	**$3,693.2**	**$3,571.5**	**$3,707.0**
Total Liabilities and Stockholders' Equity	**$7,572.3**	**$7,773.3**	**$7,041.8**	**$6,944.6**	**$6,823.3**

*Included in All Other Current Liabilities

Table 41

Production of Pig Iron and Ferroalloys

(Net tons)

Year	Pig Iron	Ferroalloys	Total
1986	10,194,655	N/A	10,194,655
1985	10,654,200	N/A	10,654,200
1984	10,629,765	221,800	10,851,565
1983	9,442,986	195,700	9,638,686
1982	8,818,564	203,378	9,021,942
1981	10,740,258	310,685	11,050,943
1980	12,007,067	318,901	12,325,968
1979	12,021,433	192,462	12,213,895
1978	11,395,988	265,042	11,661,030
1977	10,649,347	213,140	10,862,487

Source: Statistics Canada

Table 42

Materials Consumed by Blast Furnaces in the Production of Pig Iron

	Net Tons			Consumption per Ton of Pig Iron		
Year	Ore, Cinder, etc.	Limestone	Coke	Ore, Cinder, etc.	Limestone	Coke
1986	N/A	N/A	N/A	N/A	N/A	N/A
1985	14,422,758	111,125	4,962,926	1.354	0.010	0.466
1984	16,787,673	173,327	5,131,838	1.579	0.016	0.483
1983	14,697,218	215,006	4,414,226	1.556	0.023	0.467
1982	13,610,281	193,297	4,139,690	1.543	0.022	0.469
1981	15,817,001	259,426	4,552,753	1.473	0.024	0.424
1980	17,372,626	345,971	5,343,851	1.447	0.029	0.445
1979	18,601,580	469,846	5,458,170	1.547	0.039	0.454
1978	17,215,864	430,699	4,925,123	1.511	0.038	0.432
1977	15,490,321	361,054	4,798,210	1.455	0.034	0.451

Source: Statistics Canada

Table 43

Raw Steel Production

(Net tons)

Year	Open Hearth	Basic Oxygen Process	Electric	Total	Steel for Castings*	Alloy Steel Incl. in Total	Continuous Cast Incl. in Total
1986	**	10,955,796	4,462,705	15,418,501	103,432	N/A	7,116,551
1985	**	11,633,276	4,385,334	16,018,610	116,293	4,304,391	7,037,419
1984	**	11,832,642	4,225,487	16,058,129	144,804	4,565,742	6,225,060
1983	1,014,966	9,364,629	3,650,893	14,030,488	114,752	4,023,272	5,292,981
1982	1,814,266	7,989,644	3,161,669	12,965,579	120,257	3,137,866	4,293,022
1981	2,203,771	9,567,252	4,363,641	16,134,664	191,747	4,528,032	5,258,275
1980	3,583,430	9,669,217	4,275,473	17,528,120	239,495***	2,871,060	4,489,581
1979	3,632,219	10,048,152	4,042,636	17,723,007	246,203	2,458,253	3,518,894
1978	3,338,969	9,274,452	3,809,307	16,422,728	187,936	2,009,373	3,319,119
1977	3,174,390	8,766,492	3,084,991	15,025,873	164,353	1,864,649	2,390,965

*Includes only that portion of the steel for castings which was produced in foundries operated by companies producing steel ingots.
**Included in Basic Oxygen.
***Included in total 1980 and prior years.

Source: Statistics Canada.

Table 44

Net Shipments of Rolled Steel Products

(Net tons)

Products	1986	1985	1984	1983	1982
Ingots and semifinished shapes	297,654	406,540	594,400	824,174	578,736
Rails and heavy structural shapes*	605,989	586,312	573,348	505,527	454,257
Wire rods	1,255,526	1,154,729	1,199,146	1,129,709	989,851
Structural shapes intermediate**	362,852	352,425	324,346	287,179	238,106
Bar sized shapes	208,597	195,410	181,368	140,442	127,372
Concrete reinforcing bars	603,881	622,082	523,279	580,257	598,187
Other hot rolled bars	1,203,713	1,253,544	1,208,846	937,983	830,121
Tie plates and track material	42,264	54,163	75,271	55,080	63,033
Plates (Incl. plates for pipe & tube)	1,546,100	1,627,336	1,635,150	1,118,416	1,237,498
Hot rolled sheets & strip	3,130,728	3,020,767	3,047,059	2,328,771	2,203,371
Cold finished bars	144,003	130,642	135,967	99,227	75,258
Cold reduced sheets and strip, cold rolled other***	1,560,742	1,559,933	1,521,493	1,396,012	1,339,205
Tin Plate & T.F.S.	521,592	554,255	539,990	570,873	545,214
Galvanized sheets	1,371,207	1,336,334	1,182,101	1,046,692	1,025,365
Total net shipments	**12,854,848**	**12,854,472**	**12,741,764**	**11,020,342**	**10,305,574**

Source: Statistics Canada

*Prior to 1980, included only rails

**Prior to 1980, included structural shapes and piling

***Prior to 1982, included tin plate & T.F.S.

Table 44 *(continued)*

Net Shipments of Rolled Steel Products

(Net tons)

Products	1981	1980	1979	1978	1977
Ingots and semifinished shapes	1,098,708	897,005	551,343	671,919	640,276
Rails and heavy structural shapes*	925,608	862,691	380,919	290,724	350,446
Wire rods	1,088,166	1,363,294	1,257,889	1,100,126	863,872
Structural shapes intermediate**	391,404	458,798	919,602	891,647	668,854
Bar sized shapes	182,561	177,693	230,484	215,002	156,311
Concrete reinforcing bars	750,665	843,294	584,086	633,338	545,742
Other hot rolled bars	1,126,657	1,105,299	1,343,722	1,260,283	1,098,700
Tie plates and track material	74,934	87,256	79,021	70,312	75,072
Plates (incl. plates for pipe & tube)	1,987,162	1,954,672	1,874,681	1,636,158	1,253,259
Hot rolled sheets & strip	2,506,978	2,557,134	2,818,510	2,728,914	2,691,196
Cold finished bars	104,763	108,224	130,704	108,942	93,973
Cold reduced sheets and strip, cold rolled other***	1,941,128	2,037,874	2,134,726	2,107,878	1,955,483
Galvanized sheets	1,047,999	1,099,256	1,175,237	1,173,534	983,273
Total net shipments	**13,226,733**	**13,552,490**	**13,480,924**	**12,888,777**	**11,376,457**

Source: Statistics Canada

*Prior to 1980, included only rails

**Prior to 1980, included structural shapes and piling

***Prior to 1982, included tin plate and T.F.S.

Table 45

Imports of Iron and Steel Products

(Net tons)

Products	1986	1985	1984	1983	1982
Steel Mill Products:					
Ingots, blooms, billets, etc	280,685	159,473	203,074	40,962	17,978
Wire rods	315,050	246,062	255,823	151,243	124,403
Structural shapes (plain 3" and over)	164,695	173,072	206,972	129,600	102,020
Sheet piling	2,181	9,458	8,625	10,570	8,387
Plates	184,976	255,052	208,856	151,775	225,364
Rails and track accessories	92,499	79,721	37,288	22,109	34,981
Concrete reinforcing bars	9,545	13,264	6,454	10,979	11,571
Bar shapes under 3"	52,109	70,652	48,274	35,632	18,030
Bars—Hot rolled—Carbon	62,355	56,613	77,683	58,068	36,565
—Alloy	35,918	57,994	85,033	71,526	56,949
—Cold finished	20,490	21,699	18,189	11,754	8,670
Pipe and tubing	275,231	500,712	344,557	238,641	273,923
Wire drawn	66,758	66,707	59,923	46,969	34,789
Barbed wire	1,564	3,820	3,345	1,858	2,360
Wire nails	17,821	11,784	16,940	15,372	11,918
Tin plate	4,972	588	2,384	2,425	4,835
Terne plate	17,296	18,807	20,228	20,332	14,050
Sheets—Hot rolled	194,229	426,326	159,203	143,322	91,448
—Cold rolled	281,579	232,142	197,975	120,439	99,248
Sheet & strip (Coated, incl. galvanized)	266,757	180,831	129,574	108,812	101,102
All other sheet and strip	30,557	40,807	30,806	27,019	42,333
Total Steel Mill Products	**2,377,267**	**2,625,584**	**2,121,206**	**1,419,407**	**1,320,924**
Other Steel Products:					
Steel castings and forgings	17,090	17,675	13,041	12,054	13,044
Bars and rods, fabricated	6,336	5,616	5,954	3,042	3,796
Plates, flanged and dished	1,694	1,906	1,643	1,804	3,565
Plates, sheets and strip for saws	2,276	3,015	3,830	2,969	2,455
Plates, fabricated	4,985	5,475	4,717	3,521	5,344
Sheet and strip, fabricated	18,615	12,498	10,127	7,916	7,835
Structural shapes, fabricated	9,156	3,183	2,972	3,029	4,194
Wire strand	6,488	8,854	6,963	5,648	4,873
Wire rope	23,003	19,611	16,039	15,283	12,318
Grinding balls	27,564	19,877	15,612	12,608	8,373
Total Other Steel Products	**117,207**	**97,710**	**80,898**	**67,874**	**65,797**
Total Steel Products	**2,494,474**	**2,723,294**	**2,202,104**	**1,487,281**	**1,386,721**
Iron Products and Ferroalloys:					
Pig iron	13,322	11,111	5,808	5,353	2,708
Sponge iron	1,793	2,662	3,195	2,082	2,456
Castings and forgings	29,663	22,192	34,772	29,502	15,385
Pipes and tubes, cast iron	2,674	1,224	3,821	1,030	1,291
Ferroalloys	96,094	87,403	109,896	78,394	68,079
Total Iron Products and Ferroalloys	**143,536**	**124,592**	**157,492**	**116,361**	**89,919**
Grand Total	**2,638,010**	**2,847,886**	**2,359,596**	**1,603,642**	**1,476,640**

Source: Statistics Canada

Table 46

Exports of Iron and Steel Products

(Net tons)

Products	1986	1985	1984	1983	1982
Steel Mill Products:					
Ingots, blooms, billets, slabs, etc	257,307	84,560	274,523	638,325	284,623
Wire rods	397,695	355,215	368,609	304,826	377,712
Structural shapes and piling	371,557	320,360	277,979	249,993	235,137
Plates	213,232	186,415	197,132	153,931	276,005
Rail and track accessories	75,001	50,139	72,632	20,545	61,915
Bars—Hot rolled	329,567	326,424	284,114	303,796	225,396
—Cold finished	46,181	32,244	32,299	19,406	15,035
Pipe and tubing	397,387	477,510	445,167	251,438	275,233
Wire, plain and coated	212,956	180,928	183,435	141,898	98,039
Wire nails	106,867	86,118	68,337	76,151	73,969
Sheets and strip	1,136,379	1,157,096	882,997	564,687	1,216,026
Sheets and strip—Galvanized	270,591	277,731	316,111	230,400	380,649
Total Steel Mill Products	**3,814,720**	**3,534,740**	**3,403,335**	**2,955,396**	**3,519,739**
Other Steel Products:					
Bars and rods, fabricated	25,025	20,403	14,369	9,908	6,269
Grinding balls	38	31	1,400	112	3,790
Castings and forgings	41,213	45,624	56,957	41,946	40,617
Wire rope and strand	5,922	9,306	7,357	5,245	8,087
Total Other Steel Products	**72,198**	**75,364**	**80,083**	**57,211**	**58,763**
Total Steel Products	**3,886,918**	**3,610,104**	**3,483,418**	**3,012,607**	**3,578,502**
Iron Products and Ferroalloys:					
Pig iron	572,720	632,850	432,256	383,913	535,304
Sponge iron	40,786	40,091	50,192	40,717	31,394
Iron castings	91,288	88,763	96,411	82,152	70,678
Pipe and tubes, cast iron	1,330	2,153	8,604	14,874	30,246
Ferroalloys	112,238	95,063	54,456	57,903	63,517
Total Iron Products and Ferroalloys	**818,362**	**858,920**	**641,919**	**579,559**	**731,739**
Grand Total	**4,705,280**	**4,469,024**	**4,125,337**	**3,592,166**	**4,310,241**

Source: Statistics Canada

Table 47

Consumption of Coal

(Thousands of net tons)

Year	In production of Coke	Total
1986	6,672	6,674
1985	6,897	6,901
1984	7,212	7,214
1983	6,228	6,229
1982	5,500	5,504
1981	6,933	6,937
1980	7,624	7,627
1979	7,688	7,688
1978	7,528	7,532
1977	7,268	7,269

Table 48

Consumption of Coke

(Thousands of net tons)

Year	In Blast Furnaces*	Total
1986	4,578	4,585
1985	5,009	5,011
1984	5,069	5,071
1983	4,635	4,636
1982	3,693	3,695
1981	4,283	4,285
1980	5,123	5,126
1979	4,859	4,863
1978	4,906	4,908
1977	4,838	4,839

*Blast furnaces producing pig iron and ferroalloys

Table 49

Consumption of Fuel Oil

(Thousands of gallons)

Year	In Melting Furnaces	In Heating and Annealing Furnaces	Other Purposes	Total
1986	36,763	11,096	13,276	61,135
1985	34,044	15,037	10,901	59,982
1984	49,668	19,555	6,339	75,562
1983	55,577	19,329	5,802	80,708
1982	73,801	20,227	10,793	104,821
1981	148,967	17,692	7,421	174,080
1980	145,451	21,088	17,030	183,569
1979	162,770	25,779	5,647	194,196
1978	191,621	30,317	15,145	237,083
1977	158,013	30,111	8,356	196,480

Table 50

Consumption of Fluxes in Steelmaking Furnaces

(Thousands of net tons)

Year	Fluorspar	Limestone	Lime	Other Fluxes	Total
1986	17	57	805	197	1,076
1985	21	73	763	229	1,086
1984	28	75	767	179	1,049
1983	24	67	748	159	998
1982	26	88	678	132	924
1981	29	89	786	122	1,026
1980	38	112	764	121	1,035
1979	33	130	821	131	1,115
1978	37	157	801	147	1,092
1977	30	90	756	145	1,020

Table 51

Consumption of Oxygen

(Millions of cubic feet)

	1986	1985	1984	1983	1982
Consumption By Uses:					
Conditioning	1,599	1,613	1,470	1,383	1,206
Scrap preparation	292	331	346	348	289
Other burning and welding	154	176	184	160	185
Blast furnaces	1,695	1,243	1,137	1,086	941
Steelmaking:					
Open hearth	+	+	2,374	1,367	3,196
Basic oxygen process & Electric	21,791	22,752	19,915	17,849	15,024
Total steelmaking	21,791	22,752	22,289	19,216	18,220
Maintenance & construction	54	31	29	26	21
All other	1,074	915	1,174	1,532	2,148
Total	**26,659**	**27,062**	**26,629**	**23,751**	**22,990**

+ Included with Basic Oxygen and Electric

Table 52

Consumption of Pig Iron

(Thousands of net tons)

Year	Steelmaking	Other Than Steelmaking	Total
1986	9,374	41	9,415
1985	9,882	64	9,946
1984	9,975	223	10,198
1983	8,801	169	8,970
1982	8,154	134	8,288

WORLD STATISTICS

The following tables covering production of foreign countries were compiled from reports issued by Statistics Canada, and the International Iron and Steel Institute.

Table 53

World Production of Pig Iron by Countries

(Thousands of net tons)

Countries	1986[P] Tons	%	1985[R] Tons	%	1984 Tons	%	1983 Tons	%	1982 Tons	%
North America										
United States	43,952	8.1	50,446	9.2	51,904	9.6	48,706	9.6	43,309	8.6
Canada	10,195	1.9	10,654	1.9	10,630	2.0	9,443	1.9	8,819	1.8
Total	**54,147**	**10.0**	**61,100**	**11.1**	**62,534**	**11.6**	**58,149**	**11.5**	**52,128**	**10.4**
Latin America										
Argentina	1,807		1,443		984		1,006		1,121	
Brazil	17,458		20,901		18,993		14,269		11,936	
Chile	651		634		655		595		499	
Columbia	352		271		298		295		265	
Mexico	4,109		3,891		4,265		3,898		3,961	
Peru	238		180				125		179	
Venezuela	541		485		358		186		223	
Total	**25,156**	**4.7**	**27,805**	**5.1**	**25,553**	**4.7**	**20,375**	**4.0**	**18,182**	**3.6**
Europe										
Western Europe										
EEC										
Belgium	8,913		9,642		9,933		8,855		8,632	
Luxembourg	2,924		3,036		3,051		2,553		2,852	
France	15,117		16,608		16,214		14,881		16,220	
Italy	13,115		12,851		12,821		11,368		12,717	
Netherlands	5,101		5,312		5,430		4,130		3,987	
West Germany	31,517		34,757		33,293		29,319		30,447	
United Kingdom	10,707		11,444		10,458		10,446		9,179	
Greece							138		110	
Total EEC	93,153	17.3	93,650	17.0	91,200	16.9	81,690	16.1	84,144	16.7
Other Western Europe										
Austria	3,692		4,083		4,128		3,660		3,434	
Finland	2,180		2,095		2,242		2,092		2,143	
Norway	628		668		605		657		534	
Portugal**	465		572		522		391		236	
Spain**	5,294		6,037		5,884		5,973		6,612	
Sweden	2,684		2,672		2,440		2,217		1,961	
Switzerland	72		73		60		11		11	
Turkey	4,041		3,520		3,199		2,997		2,396	
Yugoslavia *	3,381		3,439		3,147		3,126		2,978	
Total Other Western Europe	16,678	3.1	23,159	4.2	22,227	4.1	21,124	4.2	20,304	4.0
Total Western Europe	**109,831**	**20.4**	**116,809**	**21.2**	**113,427**	**21.0**	**102,815**	**20.3**	**104,448**	**20.7**

* Communist Bloc
** 1986 included in EEC total

Table 53 *(continued)*

World Production of Pig Iron by Countries

(Thousands of net tons)

Countries	1986[P] Tons	%	1985[R] Tons	%	1984 Tons	%	1983 Tons	%	1982 Tons	%
Eastern Europe										
(Communist Bloc)										
Bulgaria	1,764		1,887		1,745		1,802		1,724	
Czechoslovakia	10,582		10,540		10,539		10,434		10,499	
East Germany	2,894		2,842		2,601		2,433		2,369	
Hungary	2,287		2,317		2,310		2,270		2,426	
Poland	11,243		10,401		10,513		9,028		9,521	
Rumania	10,472		10,154		10,535		13,881		14,391	
U.S.S.R.	125,221		121,228		122,237		121,752		117,641	
Total Eastern Europe	**164,463**	**30.5**	**159,369**	**29.0**	**160,480**	**29.7**	**161,600**	**31.8**	**158,570**	**31.5**
Total Europe	**274,294**	**50.9**	**276,178**	**50.2**	**273,907**	**50.7**	**264,415**	**52.1**	**263,018**	**52.2**
Africa										
Zimbabwe	710		743		441		644		527	
South Africa, Republic of	6,365		5,553		6,097		5,748		7,454	
Algeria	1,213		1,213		1,213		1,213		1,209	
Tunisia	165		165		165		162		107	
Other	22		22		22		22		22	
Total	**8,475**	**1.6**	**7,696**	**1.4**	**7,938**	**1.5**	**7,789**	**1.5**	**9,319**	**1.8**
Middle East										
Iran	276		276		276		265		243	
United Arab Republic (Egypt)	1,047		1,047		1,060		716		728	
Total	**1,323**	**0.2**	**1,323**	**0.2**	**1,336**	**0.2**	**981**	**0.2**	**971**	**0.2**
Far East										
India	11,584		10,847		10,455		10,099		10,626	
Japan	82,288		88,811		88,628		80,397		85,599	
South Korea	9,924		9,737		9,659		8,845		9,307	
Taiwan	4,123		3,780		3,624		3,764		2,971	
Thailand	11		11		11		22		22	
Total	**107,930**	**20.0**	**113,186**	**20.6**	**112,377**	**20.8**	**103,127**	**20.3**	**108,525**	**21.6**
Far East										
(Communist Bloc)										
China	51,808		47,997		44,160		41,204		39,143	
North Korea	9,370		8,543		6,338		6,063		5,787	
Total	**61,178**	**11.4**	**56,540**	**10.3**	**50,498**	**9.4**	**47,267**	**9.3**	**44,930**	**8.9**
Oceania										
Australia	**6,452**	**1.2**	**6,172**	**1.1**	**5,869**	**1.1**	**5,580**	**1.1**	**6,562**	**1.3**
Total World	**538,955**	**100.0**	**550,000**	**100.0**	**540,012**	**100.0**	**507,683**	**100.0**	**503,635**	**100.0**

NOTE: Detail does not necessarily add to totals.

Source: United States—American Iron and Steel Institute; Canada—Statistics Canada; Other Countries—International Iron and Steel Institute.

Table 54

World Production of Raw Steel by Countries

(Thousands of net tons)

Countries	1986[P] Tons	%	1985[R] Tons	%	1984 Tons	%	1983 Tons	%	1982 Tons	%
North America										
United States	81,606	10.4	88,259	11.1	92,528	11.8	84,615	11.6	74,577	10.5
Canada	15,419	2.0	16,019	2.0	16,058	2.1	14,030	1.9	12,966	1.8
Total	**97,025**	**12.4**	**104,278**	**13.1**	**108,586**	**13.9**	**98,645**	**13.5**	**87,543**	**12.3**
Latin America										
Argentina	3,575		3,247		2,918		3,243		3,211	
Brazil	23,406		22,546		20,266		16,172		14,324	
Chile	775		751		761		674		532	
Columbia	661		579		553		510		451	
Cuba *	459		441		373		331		364	
Mexico	7,901		8,004		8,247		7,625		7,778	
Peru	537		456		371		319		303	
Venezuela	3,810		3,368		3,053		2,557		2,511	
Others	564		353		366		407		396	
Total	**41,688**	**5.3**	**39,745**	**5.0**	**36,908**	**4.7**	**31,838**	**4.4**	**29,870**	**4.2**
Europe										
Western Europe										
EEC										
Belgium-Luxembourg	11,813		16,124		16,851		14,826		14,883	
Denmark	697		582		604		543		617	
France	19,734		20,740		20,944		19,381		20,285	
West Germany	40,935		44,640		43,418		39,384		39,551	
Ireland	229		224		183		155		67	
Italy	25,207		26,314		26,524		24,042		26,466	
Netherlands	5,823		6,081		6,326		4,942		4,799	
United Kingdom	16,326		17,330		16,668		16,539		15,107	
Greece	1,113		1,086		990		957		1,003	
Total EEC	**135,855**	**17.3**	**133,121**	**16.8**	**132,507**	**16.9**	**120,749**	**16.5**	**122,779**	**17.3**
Other Western Europe										
Austria	4,731		5,137		5,368		4,862		4,694	
Finland	2,851		2,776		2,909		2,663		2,661	
Norway	937		1,041		1,010		988		830	
Portugal**	776		740		772		739		578	
Spain**	13,202		15,689		14,878		14,340		14,491	
Sweden	5,192		5,305		5,186		4,641		4,299	
Switzerland	1,113		1,088		1,078		920		920	
Turkey	6,587		5,456		4,773		4,227		3,134	
Yugoslavia *	4,980		4,938		4,669		4,557		4,232	
Total Other Western Europe	**26,391**	**3.4**	**42,170**	**5.3**	**40,643**	**5.2**	**37,937**	**5.2**	**35,839**	**5.0**
Total Western Europe	**162,246**	**20.7**	**175,291**	**22.1**	**173,150**	**22.1**	**158,686**	**21.7**	**158,618**	**22.3**

* Communist Bloc

**1986 included in EEC total

Table 54 *(continued)*

World Production of Raw Steel by Countries

(Thousands of net tons)

Countries	1986[P] Tons	%	1985[R] Tons	%	1984 Tons	%	1983 Tons	%	1982 Tons	%
Eastern Europe										
(Communist Bloc)										
Bulgaria	3,114		3,225		3,172		3,114		2,851	
Czechoslovakia	16,672		16,574		16,348		16,561		16,570	
East Germany	8,736		8,655		8,348		7,958		7,901	
Hungary	4,106		4,020		4,135		3,987		4,081	
Poland	18,960		17,776		18,224		17,897		16,309	
Rumania	15,763		15,206		15,914		13,881		14,391	
U S S R	176,919		170,474		170,008		168,113		162,207	
Total Eastern Europe	**244,270**	**31.1**	**235,930**	**29.8**	**236,149**	**30.2**	**231,511**	**31.7**	**224,308**	**31.6**
Total Europe	**406,516**	**51.8**	**111,221**	**51.9**	**409,299**	**52.3**	**390,197**	**53.4**	**382,926**	**53.9**
Africa										
Zimbabwe	743		806		466		713		606	
Republic of South Africa	9,981		9,377		8,523		7,721		9,039	
Others	1,164		1,211		1,114		1,235		1,077	
Total	**11,888**	**1.5**	**11,394**	**1.4**	**10,103**	**1.3**	**9,669**	**1.3**	**10,722**	**1.5**
Middle East										
Egypt	1,102		1,047		1,268		937		1,047	
Saudi Arabia	1,213		1,219		928		441			
Iran	1,323		1,323		1,323		1,323		1,323	
Others	901		918		849		829		862	
Total	**4,539**	**0.6**	**4,507**	**0.5**	**4,368**	**0.6**	**3,530**	**0.5**	**3,232**	**0.5**
Asia										
India	13,087		12,724		11,628		11,284		12,122	
Japan	108,329		116,049		116,387		107,109		109,732	
South Korea	16,044		14,924		14,367		13,134		12,961	
Taiwan	6,112		5,609		5,520		5,546		4,577	
Others	4,769		4,196		3,252		2,706		2,444	
Total	**148,341**	**18.9**	**153,502**	**19.4**	**151,154**	**19.3**	**139,779**	**19.1**	**141,836**	**20.0**
Asia										
(Communist Bloc)										
China	57,209		51,504		47,751		44,114		40,915	
North Korea	9,921		9,259		7,165		6,724		6,392	
Total	**67,130**	**8.5**	**60,763**	**7.7**	**54,916**	**7.0**	**50,838**	**6.9**	**47,308**	**6.6**
Oceania										
Australia	7,357		7,285		6,947		6,176		7,023	
New Zealand	316		250		309		258		278	
Total	**7,673**	**1.0**	**7,535**	**1.0**	**7,256**	**0.9**	**6,434**	**0.9**	**7,301**	**1.0**
Total Free World	**467,961**	**59.6**	**490,873**	**61.9**	**486,483**	**62.2**	**443,693**	**60.7**	**434,525**	**61.1**
Total Communist Bloc	**316,839**	**40.4**	**302,072**	**38.1**	**296,107**	**37.8**	**287,237**	**39.3**	**276,213**	**38.9**
Total World	**784,800**	**100.0**	**792,945**	**100.0**	**782,590**	**100.0**	**730,930**	**100.0**	**710,738**	**100.0**

NOTE: United States data excludes steel produced by foundries which report their output to the Bureau of Census, but not to American Iron and Steel Institute as follows: 1986—877[P]; 1985—940; 1984—940; 1983—729; 1982—1,017; (in thousands of net tons).

SOURCE: United States—American Iron and Steel Institute; Canada—Statistics Canada; Other Countries—International Iron and Steel Institute.

AMERICAN IRON AND STEEL INSTITUTE

E R R A T A

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